

# WRANGELL AIRPORT

## SAND & CHEMICAL STORAGE BUILDING

NOVEMBER 21, 2001

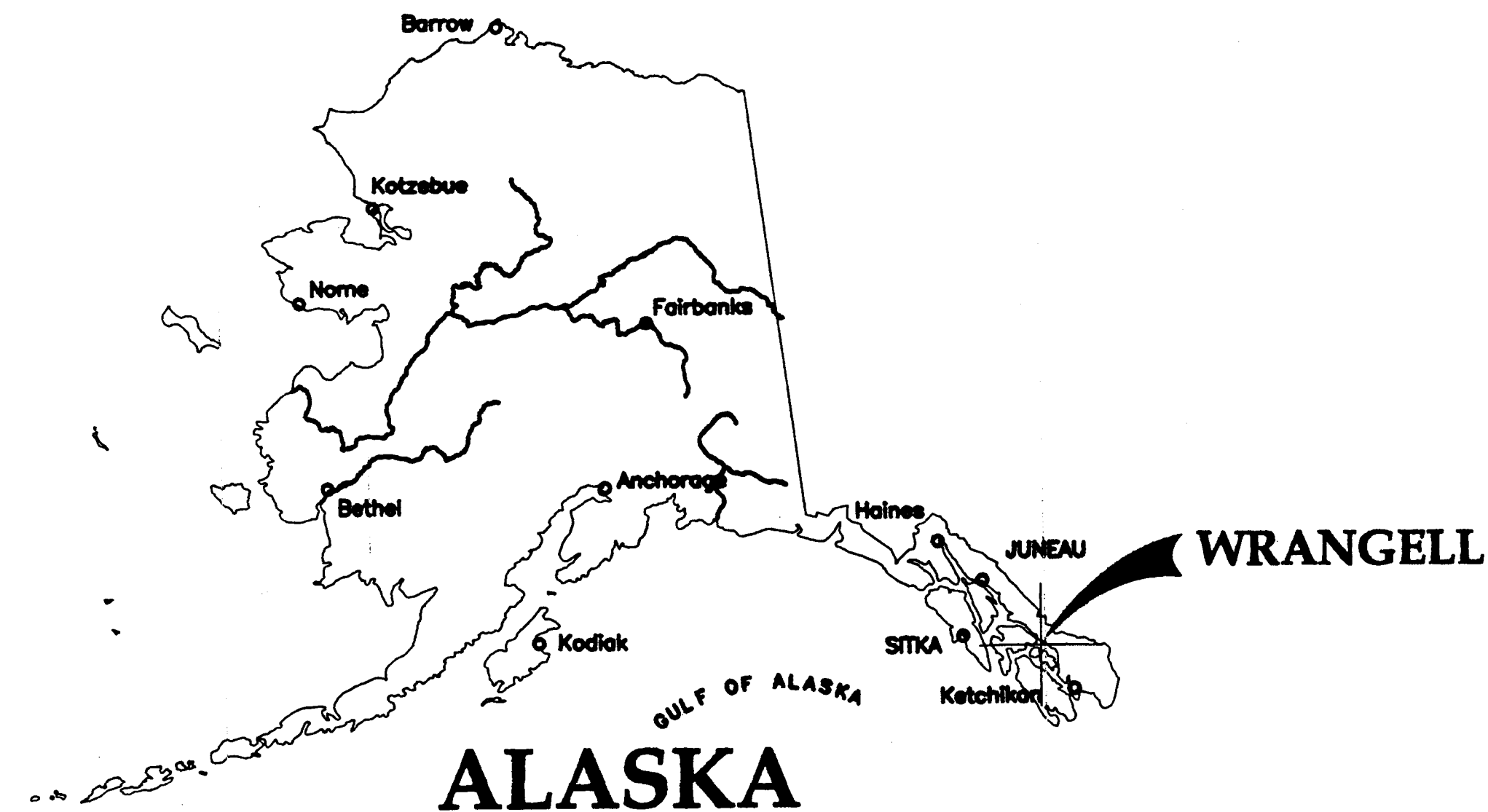
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### CONSULTANTS

### CODE DATA

2000 IBC  
OCCUPANCY S-1  
CONSTRUCTION TYPE V-B  
TABLE 503  
STORIES-1 STORY ALLOWED  
1 STORY ACTUAL  
AREA- 9,000SF ALLOWED  
10,052SF ACTUAL  
AREA INCREASE CALCULATION  
(506.2) If = 100 (( $\frac{100}{100}$ )-25)  $\frac{3}{4}$ =75  
(506.1) A a = 9,000+(9,000x $\frac{75}{100}$ ) + (9,000 x $\frac{0}{100}$ ) = 15,750  
NOT SPRINKLERED



### LOCATION

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	
APPROVED  Regional Preconstruction Engineer	Date 3/3/02
APPROVED  Regional Southeast Director	Date 3/10/02

AS BUILT

CONTRACTOR: MCGRAW-HILL CUSTOM CONSTRUCTION  
PROJECT ENGINEER: AL RISLEY  
BEGIN DATE: JUNE 27, 2002  
END DATE: APRIL 17, 2003

PLANS DEVELOPED BY:  
**JENSEN  
YORBA  
LOTT  
INC.**

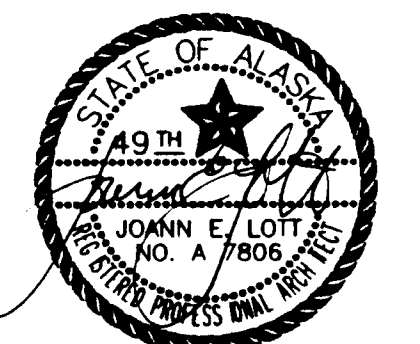
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RECORD OF REVISIONS		
DATE	BY	DESCRIPTION OF CHANGE

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY:	PROJECT NO. 87547 AIP-3-02-0323-0902
DRAWN BY:	DATE: NOVEMBER 21, 2001
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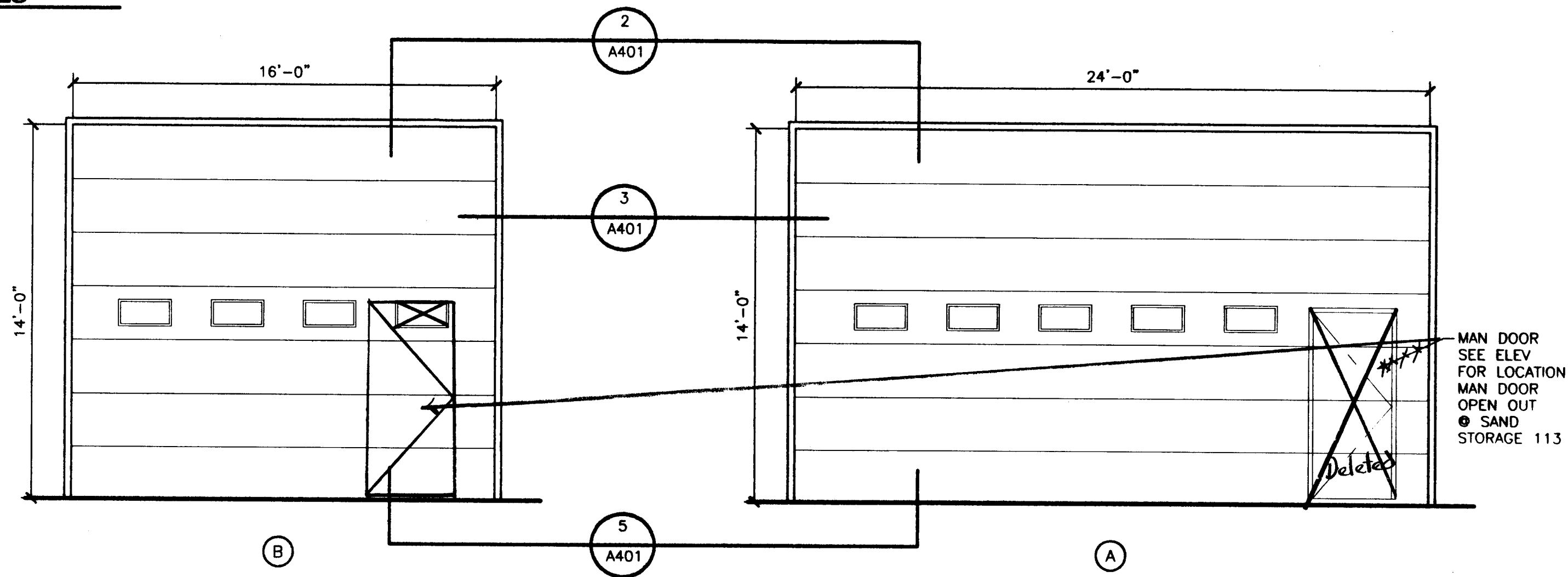
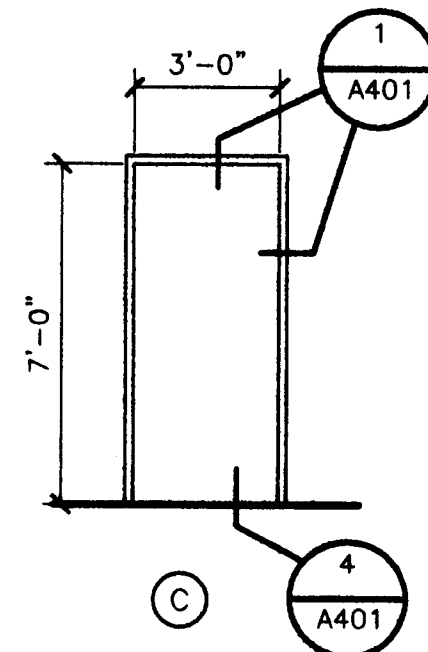


STANDARD ABBREVIATIONS											
&	AND	E	EAST	ID	INSIDE DIAMETER	RGTR	REGISTER				
L	ANGLE	EA	EACH	INSUL	INSULATION	RH	ROBE HOOK				
@	AT	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	INT	INTERIOR	RM	ROOM				
⊕	CENTERLINE	EJ	EXPANSION JOINT	JAN	JANITOR	RO	ROUGH OPENING				
∅	DIAMETER	EL	ELEVATION	JT	JOINT	RWD	REDWOOD				
#	NUMBER	ELEC	ELECTRICAL	LAB	LABORATORY	RWL	RAIN WATER LEADER				
ACOUS	ACOUSTICAL	ELEV	ELEVATOR	LAM	LAMINATE	S	SOUTH				
AD	ACCESS DOOR	EMER	EMERGENCY	LAV	LAVATORY	SC	SOLID CORE				
ADJ	ADJUSTABLE	EM	ENTRY MAT	LKR	LOCKER	SCD	SEAT COVER DISPENSER				
AFF	ABOVE FINISH FLOOR	ENCL	ENCLOSURE	LT	LIGHT	SCHED	SCHEDULE				
AIB	AIR INFILTRATION BARRIER	EP	ELECTRICAL PANELBOARD	M	MIRROR	SD	SOAP DISPENSER				
AL	ALUMINUM	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MAX	MAXIMUM	SECT	SECTION				
AP	ACOUSTICAL PANEL	EQ	EQUAL	MC	MEDICINE CABINET	SF	SQUARE FOOT				
APPROX	APPROXIMATE	EQP	EQUIPMENT	MDO	MEDIUM DENSITY OVERLAD	SH	SHELF				
ARCH	ARCHITECTURAL	EWC	ELECTRIC WATER COOLER	MECH	MECHANICAL	SHR	SHOWER				
ASB	ASBESTOS	EX	EXISTING	MEMB	MEMBRANE	SHTH	SHEATHING				
		EXPO	EXPOSED	MFR	MANUFACTURER	SIM	SIMILAR				
BD	BOARD	EXP	EXPANSION	MH	MANHOLE	SND	SANITARY NAPKIN DISPENSER				
BITUM	BITUMINOUS	EXT	EXTERIOR	MIN	MINIMUM	SNR	SANITARY NAPKIN RECEPTACLE				
BLDG	BUILDING	FA	FIRE ALARM	MISC	MISCELLANEOUS	SPEC	SPECIFICATIONS				
BLK	BLOCK	FB	FLAT BAR	MO	MASONRY OPENING	SQ	SQUARE				
BLKG	BLOCKING	FD	FLOOR DRAIN	MTD	MOUNTED	S SK	SERVICE SINK				
BM	BEAM	FDN	FOUNDATION	MTL	METAL	STA	STATION				
BOT	BOTTOM	FEC	FIRE EXTINGUISHER CAB	MUL	MULLION	STC	SOUND TRANSMISSION CLASS				
CAB	CABINET	FF	FINISH FLOOR	N	NORTH	STD	STANDARD				
CB	CATCH BASIN	FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT	STL	STEEL				
CEM	CEMENT	FIN	FINISH	NO OR #	NUMBER	STOR	STORAGE				
CER	CERAMIC	FLR	FLOOR	NOM	NOMINAL	STRUCT	STRUCTURAL				
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	FLASH	FLASHING	NTS	NOT TO SCALE	ST ST	STAINLESS STEEL				
		FLUOR	FLUORESCENT	OA	OVERALL	SUSP	SUSPENDED				
CG	CORNER GUARD	FOC	FACE OF CONCRETE	OC	ON CENTER	SY	SQUARE YARD				
CHAN	CHANNEL	FOF	FACE OF FINISH	OD	OUTSIDE DIAMETER						
CI	CAST IRON	FOS	FACE OF STUDS	OFD	OVERFLOW DRAIN	TE	TOWEL BAR				
CLG	CEILING	FPRF	FIREPROOF	OFF	OFFICE	TEL	TELEPHONE				
CLKG	CALKING	F/R	FIRE RETARDANT	OFOI	OWNER FURNISHED OWNER INSTALLED	TER	TERRAZZO				
CLO	CLOSET	FS	FULL SIZE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	T&G	TONGUE & GROOVE				
CLR	CLEAR	FT	FOOT OR FEET	OPNG	OPENING	THK	THICK				
CNTR	COUNTER	FTG	FOOTING	OPP	OPPOSITE	TOC	TOP OF CONCRETE				
CO	CASED OPENING	FURR	FURRING	PL	PLATE	TOD	TOP OF DECK				
COL	COLUMN	FUT	FUTURE	PLAM	PLASTIC LAMINATE	TP	TOP OF PAVEMENT				
CONC	CONCRETE	GA	GAUGE	PLAS	PLASTER	TPD	TOILET PAPER DISPENSER				
CONN	CONNECTION	GB	GALVANIZED	PR	PAIR	TRD	TREAD				
CONSTR	CONSTRUCTION	GBD	GYP SUM BOARD	PRCST	PRE-CAST	TRTD	TREATED				
CONT	CONTINUOUS	GL	GLASS	PT	PAINT	TV	TELEVISION				
CORR	CORRIDOR	GR	GRADE	PTD	PAPER TOWEL DISPENSER	TW	TOP OF WALL				
CPT	CARPET	GYP	GYP SUM	PTN	PARTITION	TYP	TYPICAL				
CT	CERAMIC TILE	H	HIGH	PTRTD	PRESSURE TREATED	UL	UNDERWRITER LABORATORY UNFINISHED				
CTR	CENTER	HB	HOSE BIBB	PVC	POLYVINYL CHLORIDE	UNF	UNFINISHED				
CTSK	COUNTERSUNK	HC	HOLLOW CORE	PWD	PLYWOOD	UON	UNLESS OTHERWISE NOTED				
DBL	DOUBLE	HDWD	HARDWOOD	QT	QUARRY TILE	UR	URINAL				
DEPT	DEPARTMENT	HDWR	HARDWARE	R	RISER	VERT	VERTICAL				
DF	DRINKING FOUNTAIN	HM	HOLLOW METAL	RD	RADIUS	VEST	VESTIBULE				
DET	DETAIL	HORIZ	HORIZONTAL	REF	REFERENCE						
DIA	DIAMETER	HR	HOUR	REFR	REFRIGERATOR						
DIM	DIMENSION	HT	HEIGHT	REINF	REINFORCED						
DISP	DISPENSER	HW	HOT WATER	REQ	REQUIRED						
DN	DOWN			RESIL	RESILIENT						
DO	DOOR OPENING										
DR	DOOR										
DS	DOWNSPOUT										
DSP	DRY STANDPIPE										
DWG	DRAWING										
DWR	DRAWER										

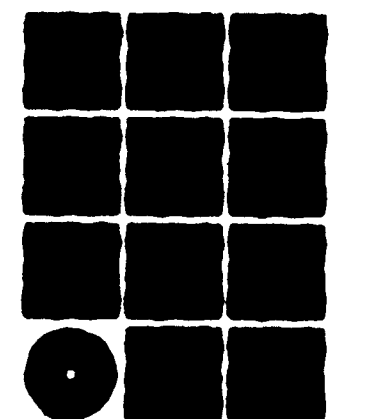
LEGEND	
BUILDING SECTION	SECTION NUMBER SHEET NUMBER
EXTERIOR ELEVATION	ELEVATION NUMBER SHEET NUMBER
WALL SECTION	SECTION NUMBER SHEET NUMBER
DETAIL REFERENCE	DETAIL NUMBER SHEET NUMBER
COLUMN GRID LINE	GRID NUMBER
STORAGE	ROOM NAME ROOM NUMBER
KEY NOTE	KEY NOTE APPLIES TO AREA OUTLINED
	EXISTING TO REMAIN UN

DOOR SCHEDULE						
NO.	TYPE	DOOR MAT	DOOR FIN	FRAME MAT	FRAME FIN	REMARKS
106A	A					OVERHEAD SECTIONAL 24'
110A	C	HM	PT	HM	PT	
110B	C	HM	PT	HM	PT	
112A	A					OVERHEAD SECTIONAL 20'
113A	A					OVERHEAD SECTIONAL 20'
114A	B					OVERHEAD SECTIONAL 16'
115A	A					OVERHEAD SECTIONAL 24'
106B	C	HM	PT	HM	PT	

#### DOOR TYPES



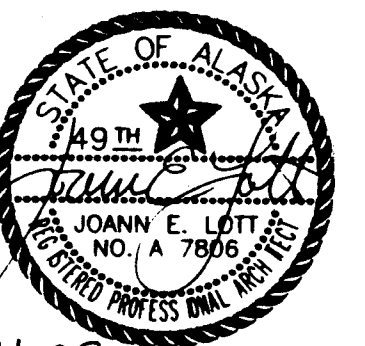
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Proj. Eng. *[Signature]* Date: 6/9/03



**Jensen  
Yorba  
Lott  
Inc.**

522 West 10th Street  
Juneau, Alaska 99801  
phone 907-586-1070  
fax 907-586-3959  
jensenyorbalott.com

**NOTE:**  
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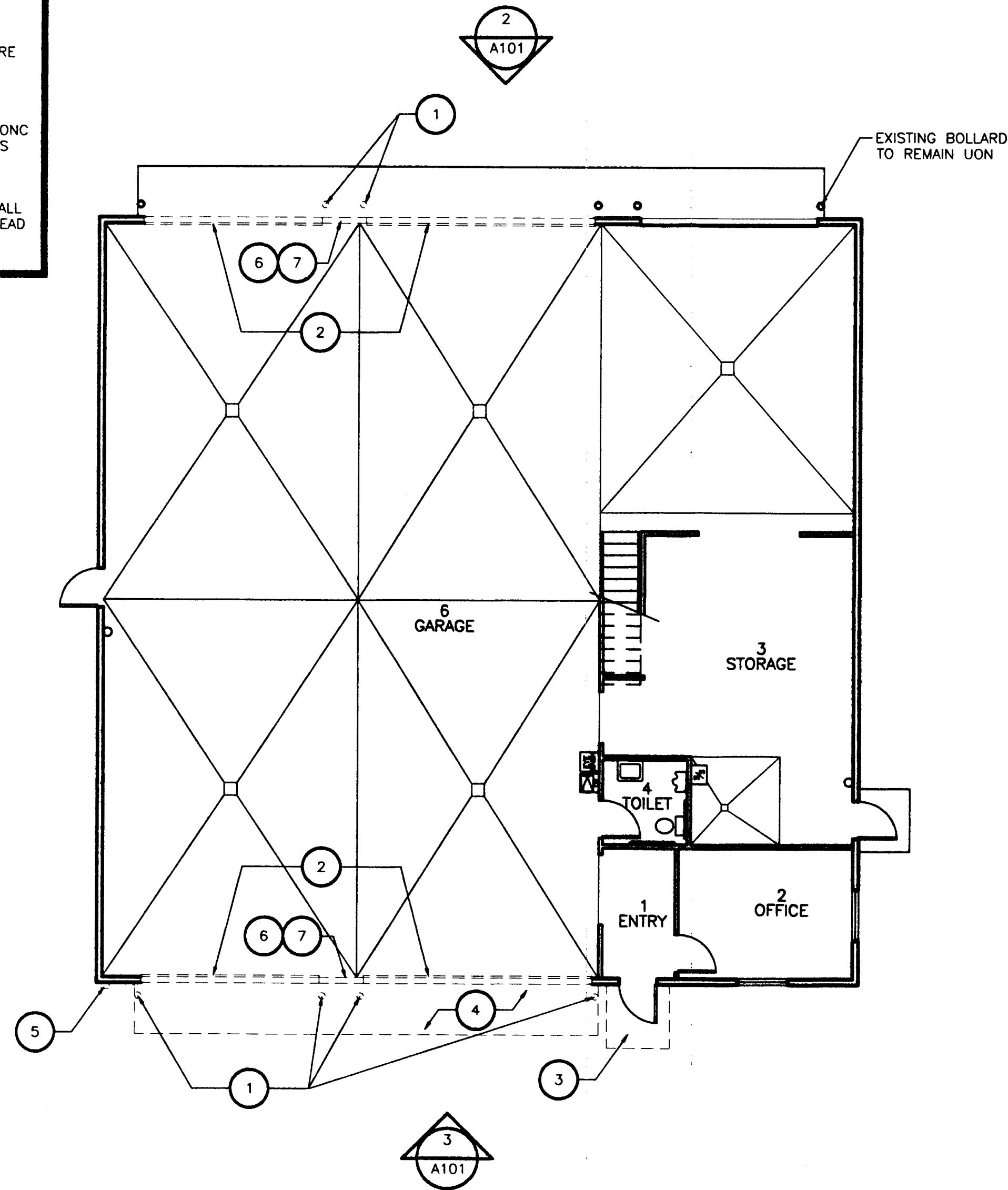
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SAND & CHEMICAL STORAGE BUILDING ADDITION

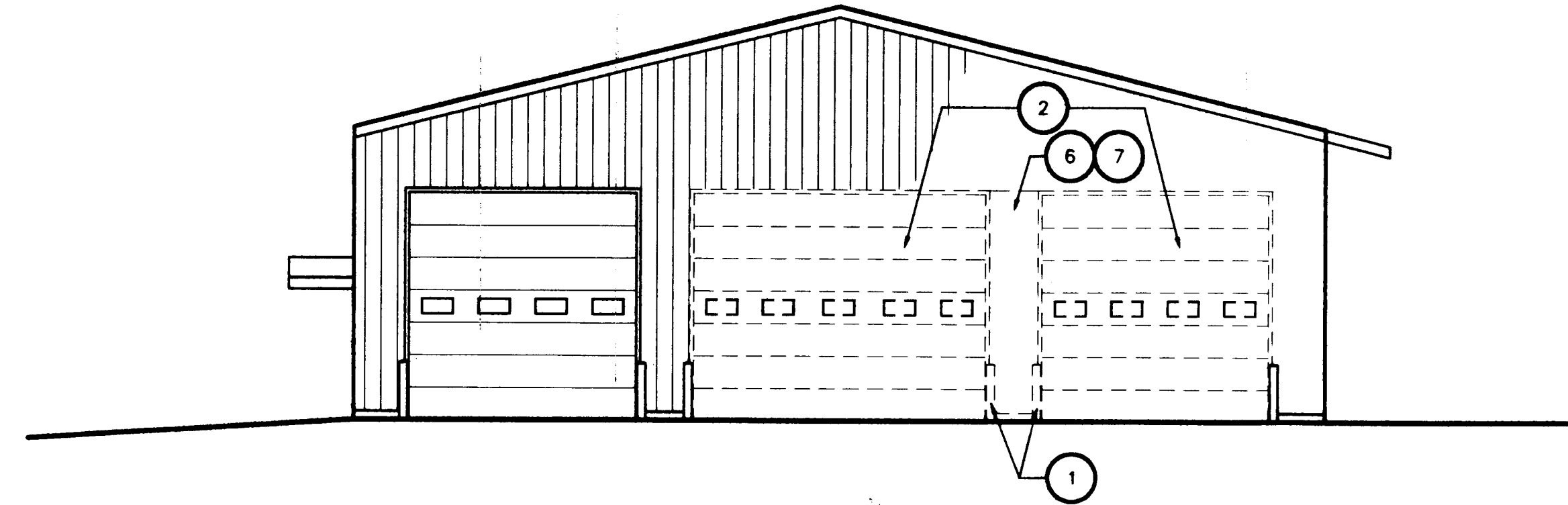
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DRAWN BY:	DATE: NOVEMBER 21, 2001
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# LEGEND

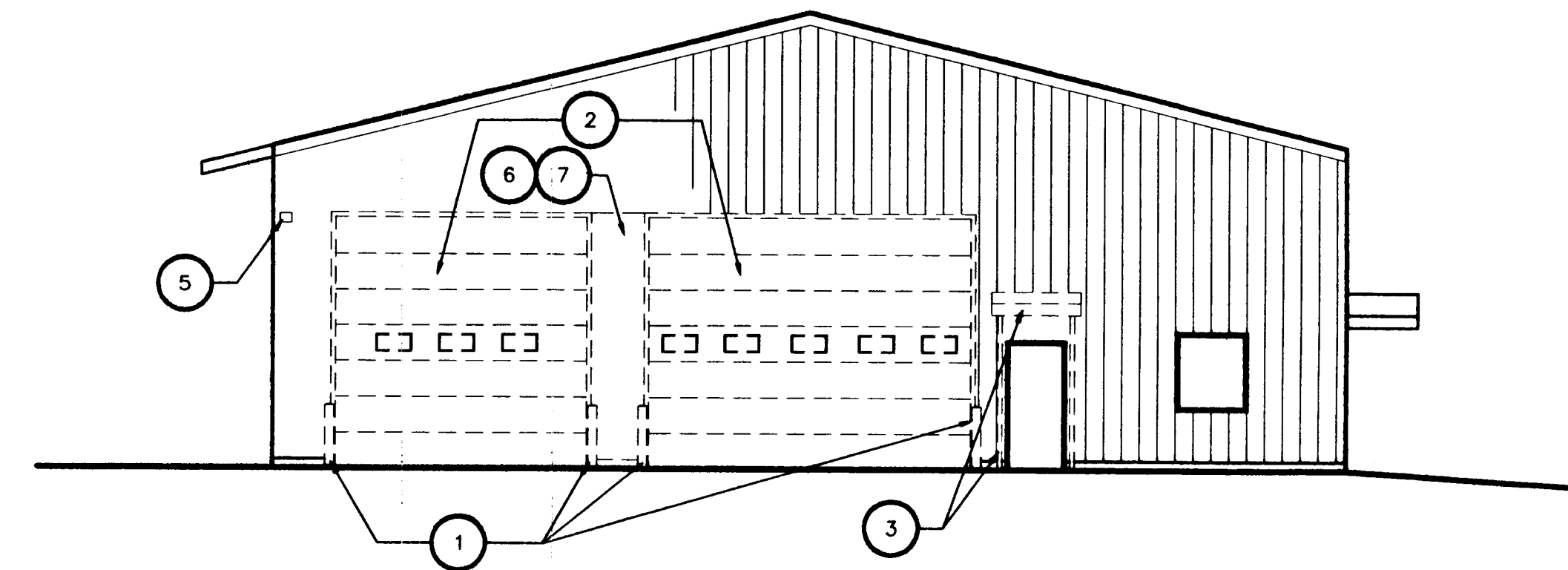
- 1 REMOVE BOLLARDS
- 2 REMOVE OVERHEAD SECTIONAL DOORS & ASSOCIATED HARDWARE
- 3 REMOVE MTL ROOF CANOPY STRUCTURE & TUBE STEEL COL
- 4 REMOVE CONCRETE APRON
- 5 REMOVE LIGHT FIXTURE
- 6 REMOVE 8"Wx10"H CONC CURB WHERE WALL IS REMOVED
- 7 REMOVE EXTERIOR WALL UP TO NEW DOOR HEAD



1 DEMO PLAN  
SCALE: 0 4' 8' 16'

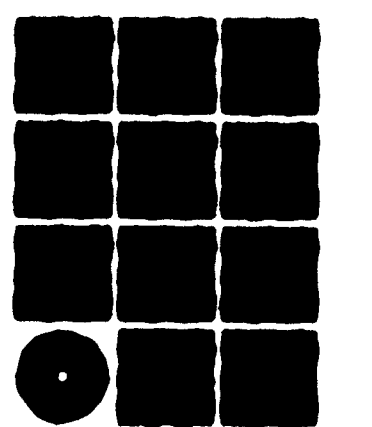


2 EXISTING EXT ELEV  
SCALE: 0 4' 8' 16'



3 EXISTING EXT ELEV  
SCALE: 0 4' 8' 16'

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Proj. Eng. *Joann E. Lott* Date 6/6/03



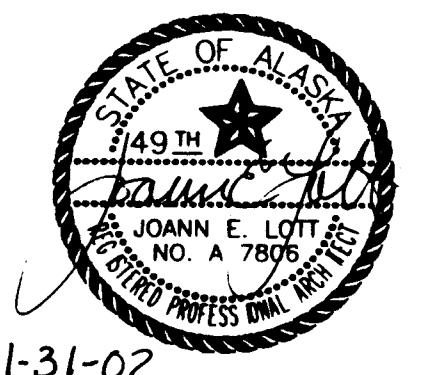
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A101

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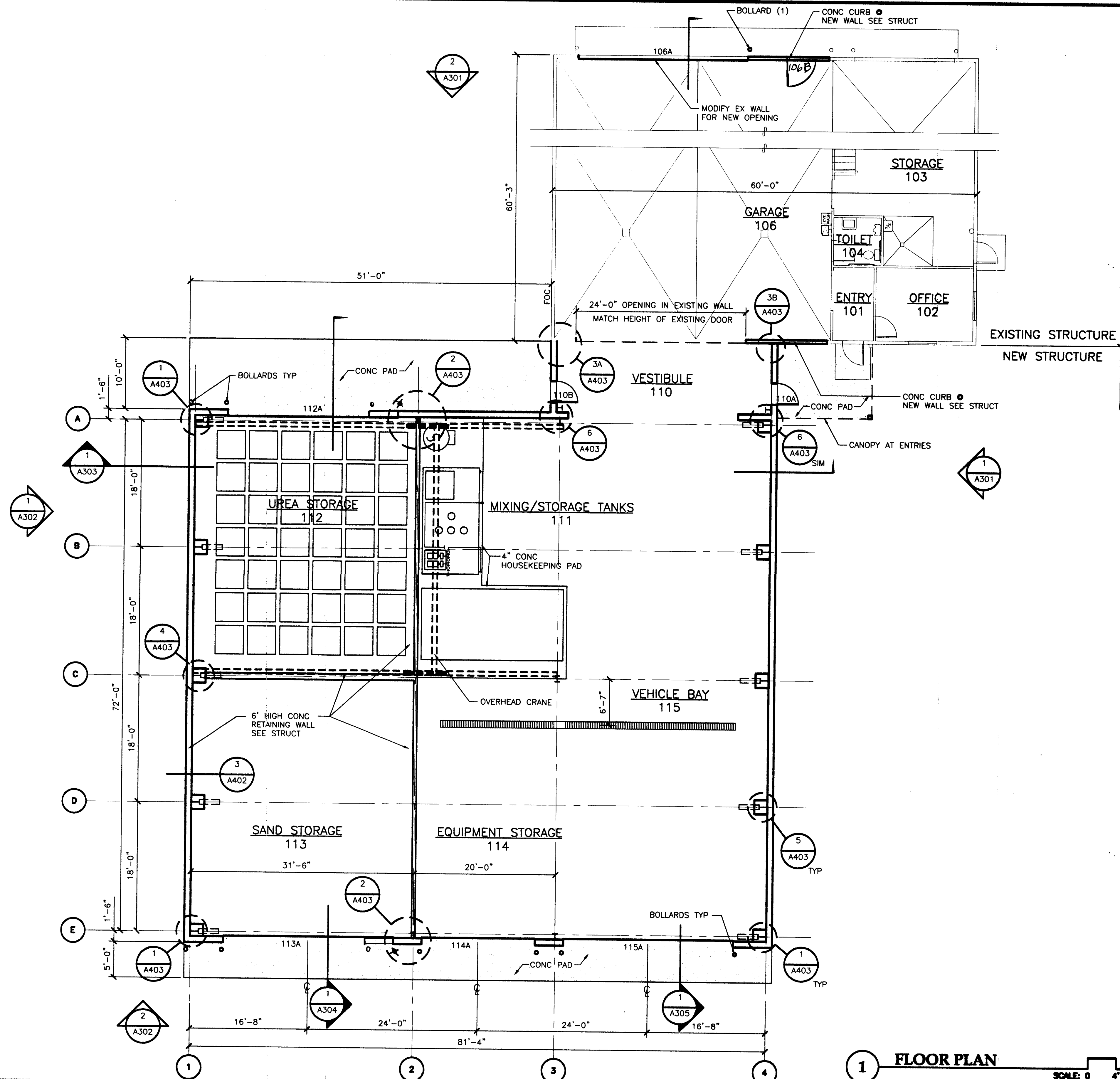


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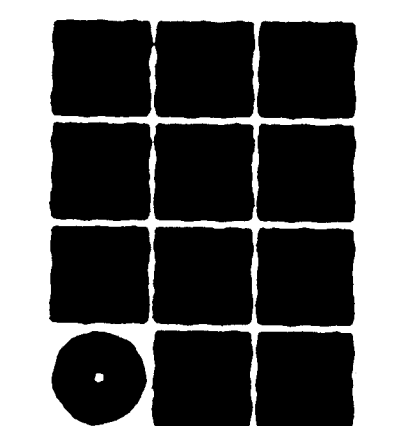
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SOUTHEAST REGION

**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

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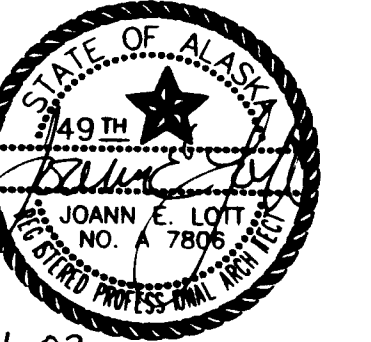
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Proj. Eng. *[Signature]* Date 6/9/02



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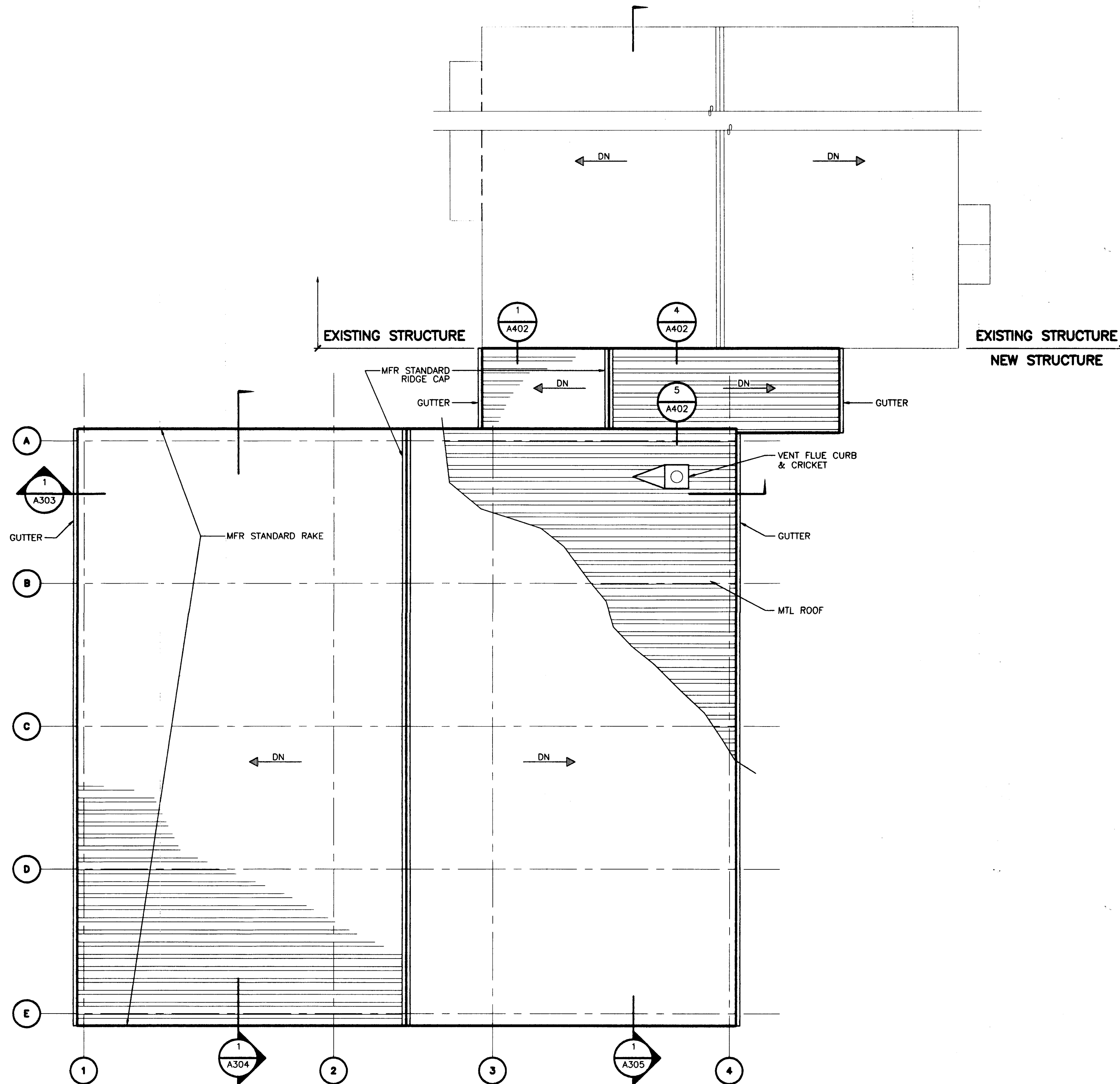
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1 FLOOR PLAN  
SCALE: 0 4' 8' 16'



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1 ROOF PLAN SCALE: 0 4' 8' 16'

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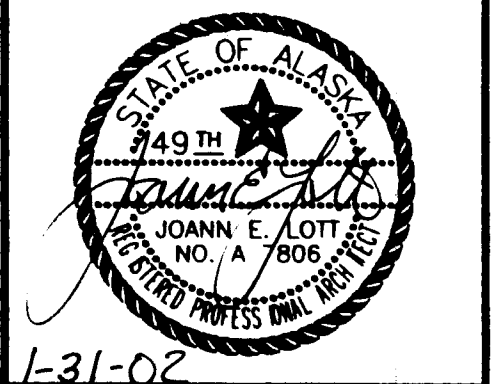
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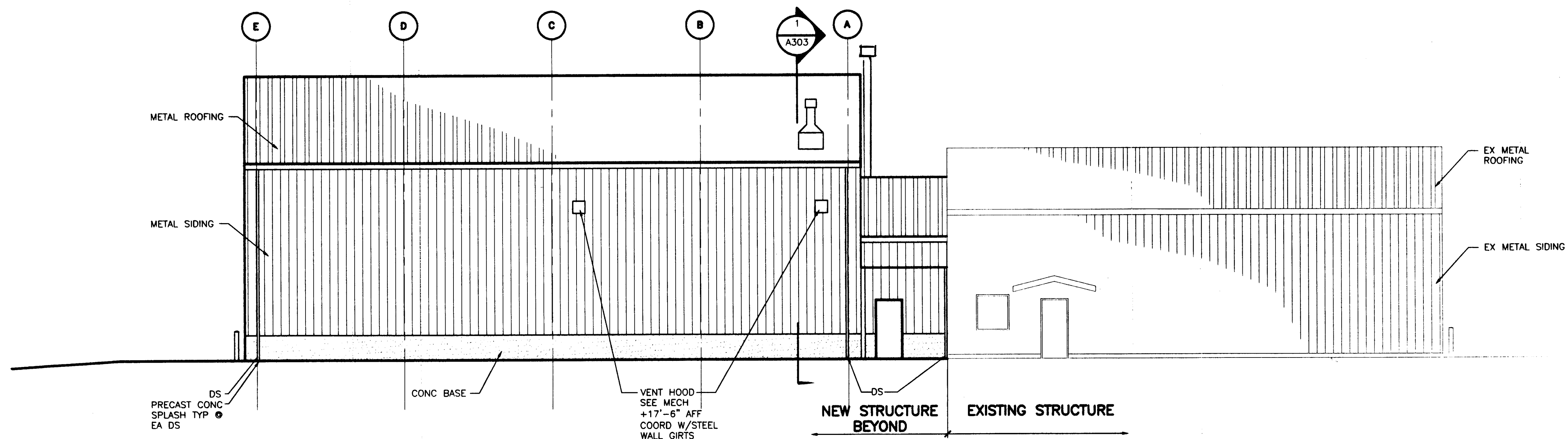
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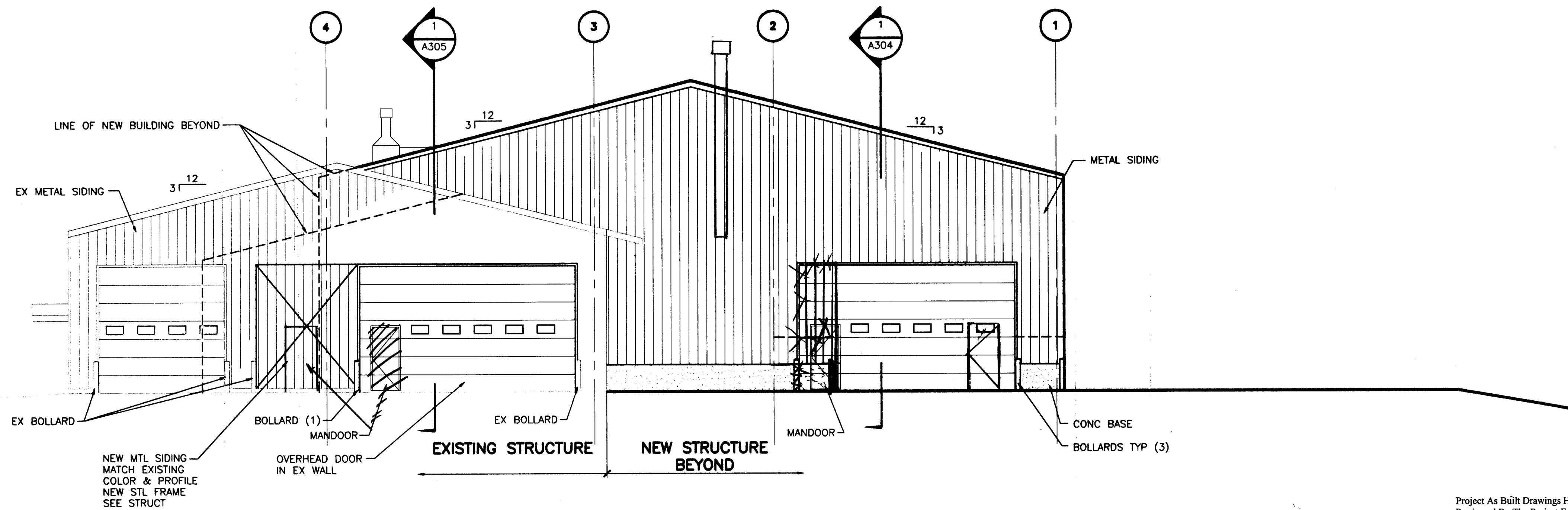
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NOVEMBER 21, 2001  
SHEET 5 OF 30





1 ELEVATION

SCALE: 0 4' 8' 16'



2 ELEVATION

SCALE: 0 4' 8' 16'

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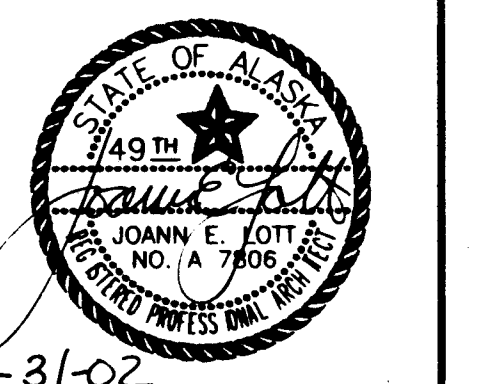
**Jensen Yorba Lott Inc.**

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A301

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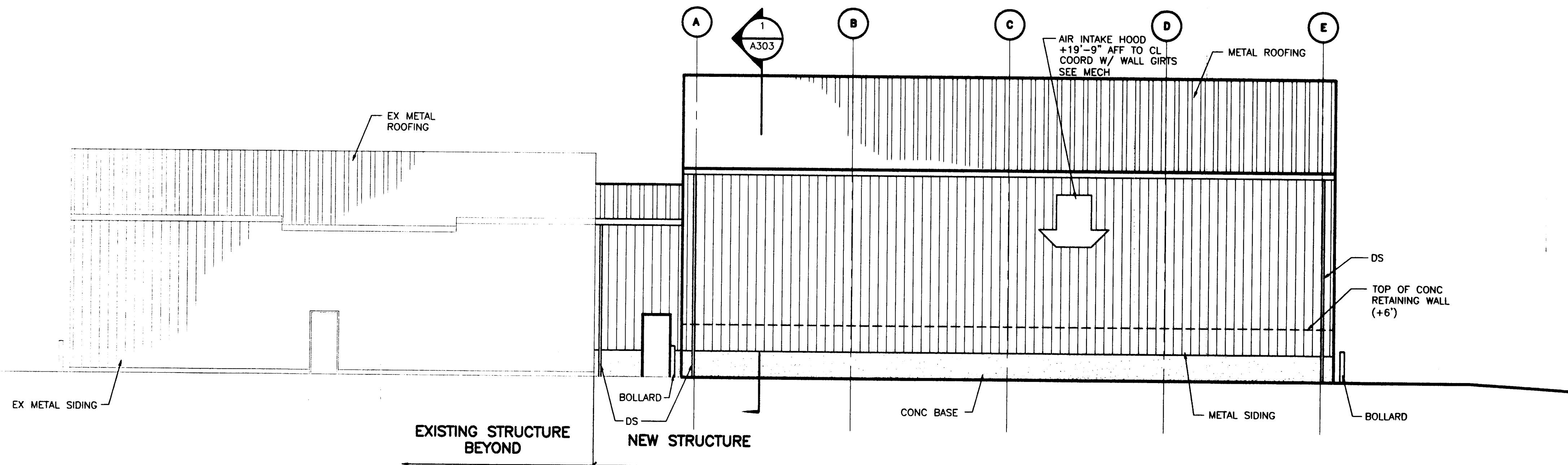


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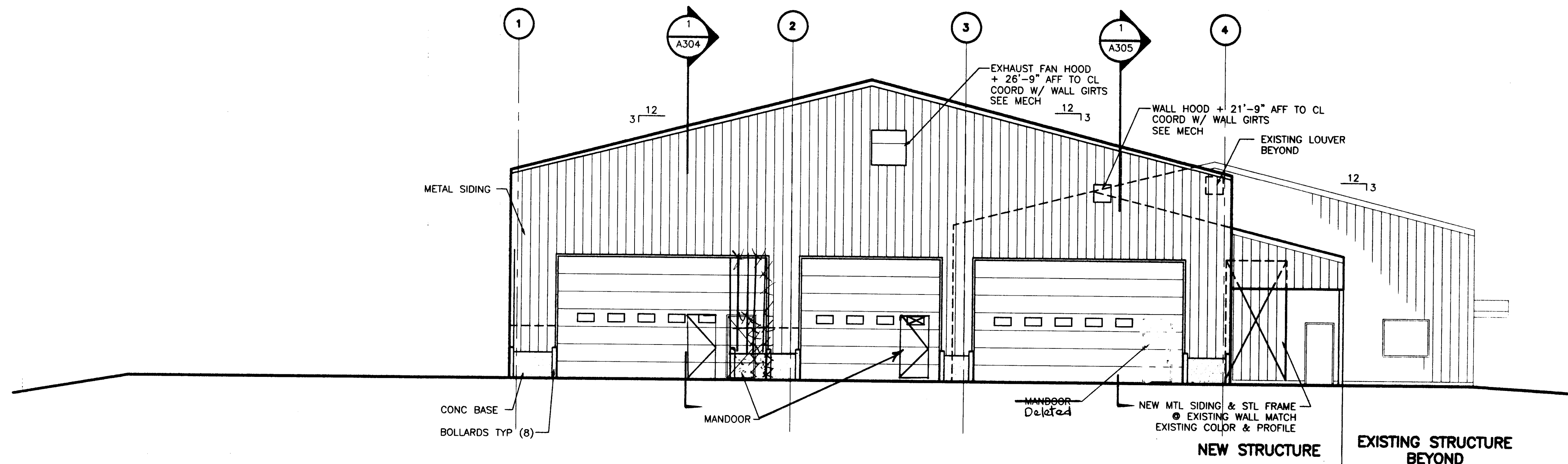
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1 ELEVATION

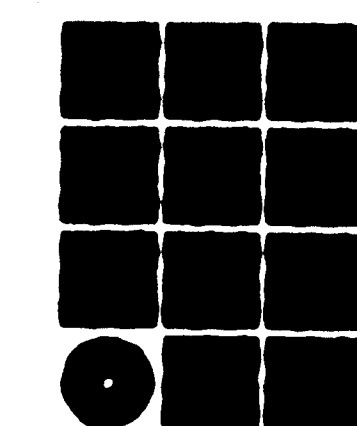
SCALE: 0 4' 8' 16'



2 ELEVATION

SCALE: 0 4' 8' 16'

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A302

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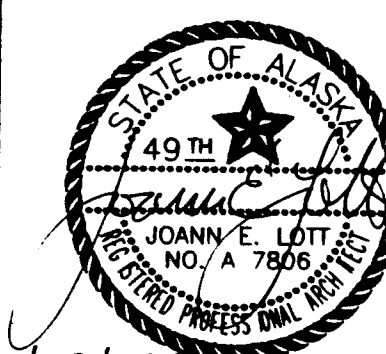
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AIP-3-02-0323-0902

CHECKED BY:

DATE:  
NOVEMBER 21, 2001

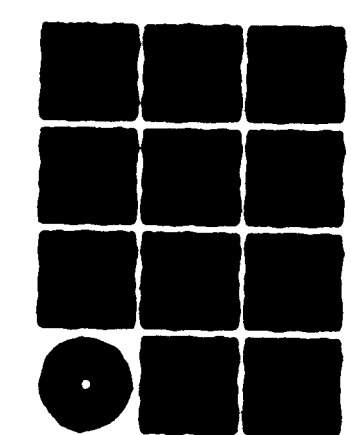
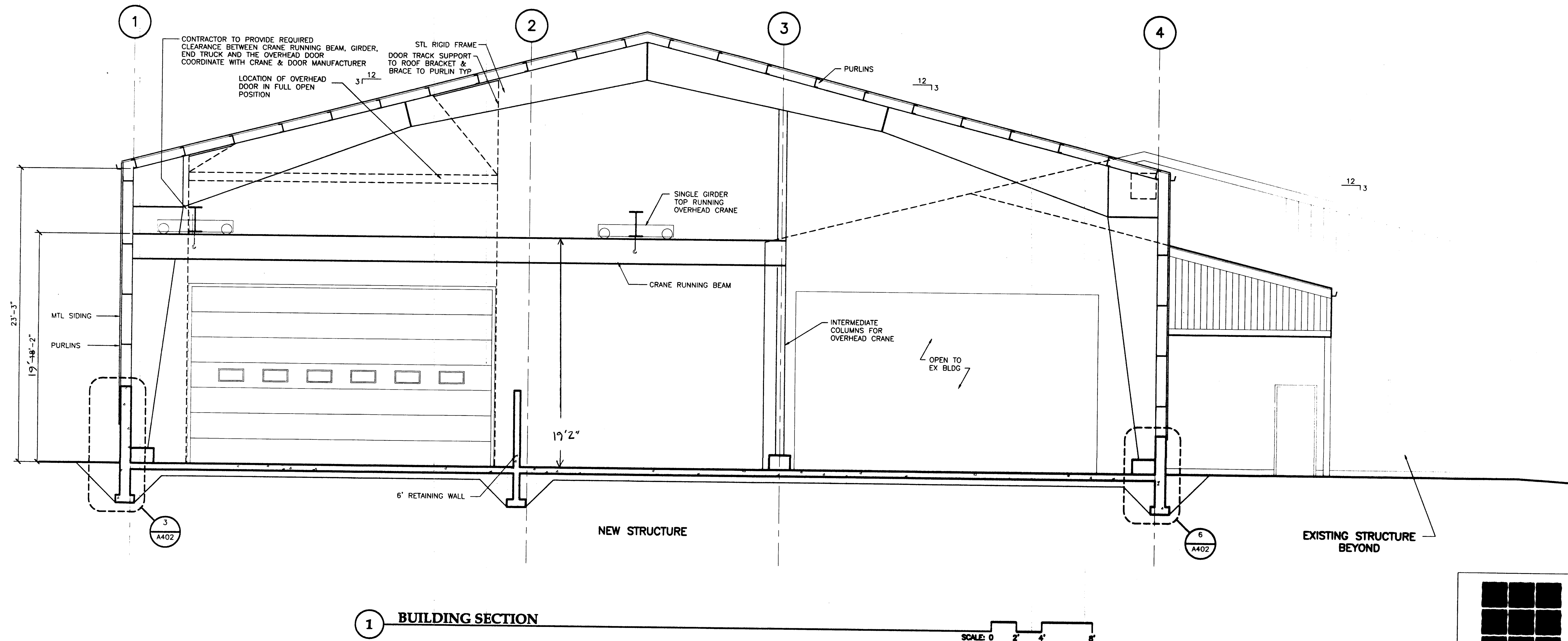
SHEET 7 OF 30



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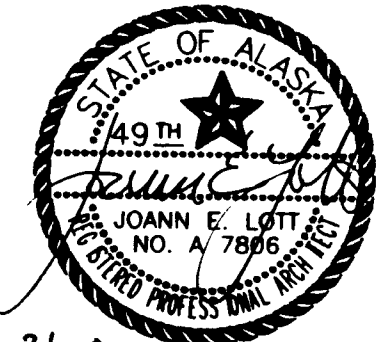
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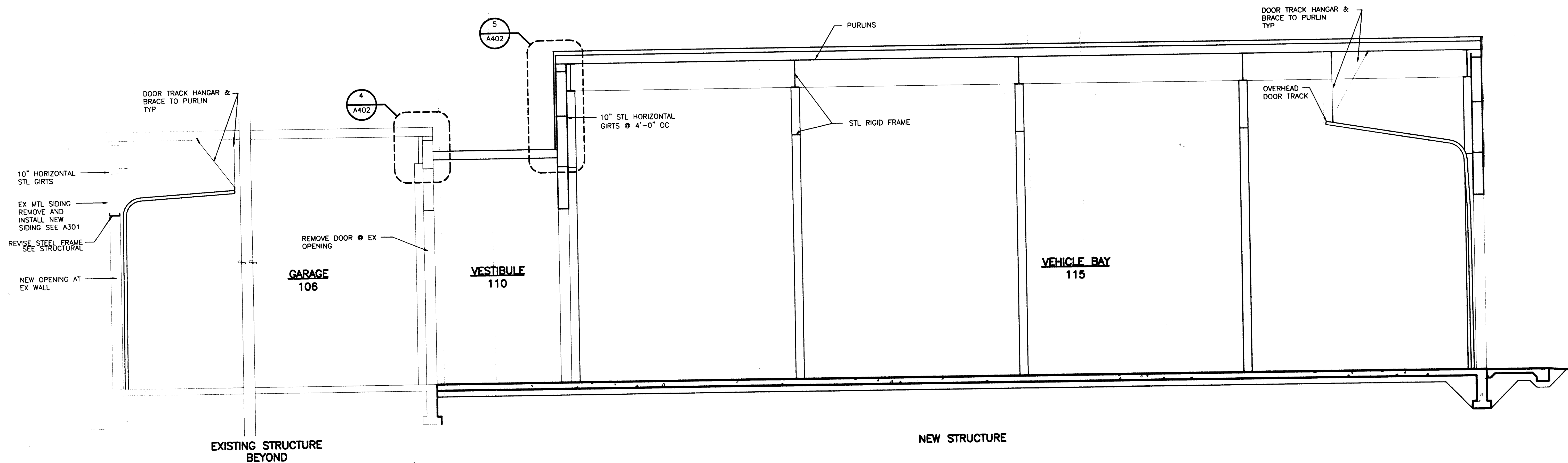
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**SHEET 8 OF 30**



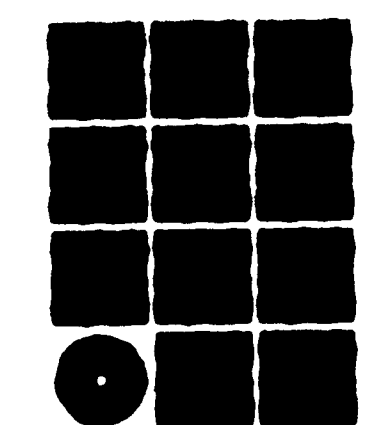






1 BUILDING SECTION

SCALE: 0 2' 4' 8'



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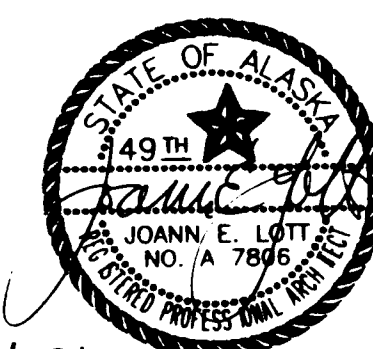
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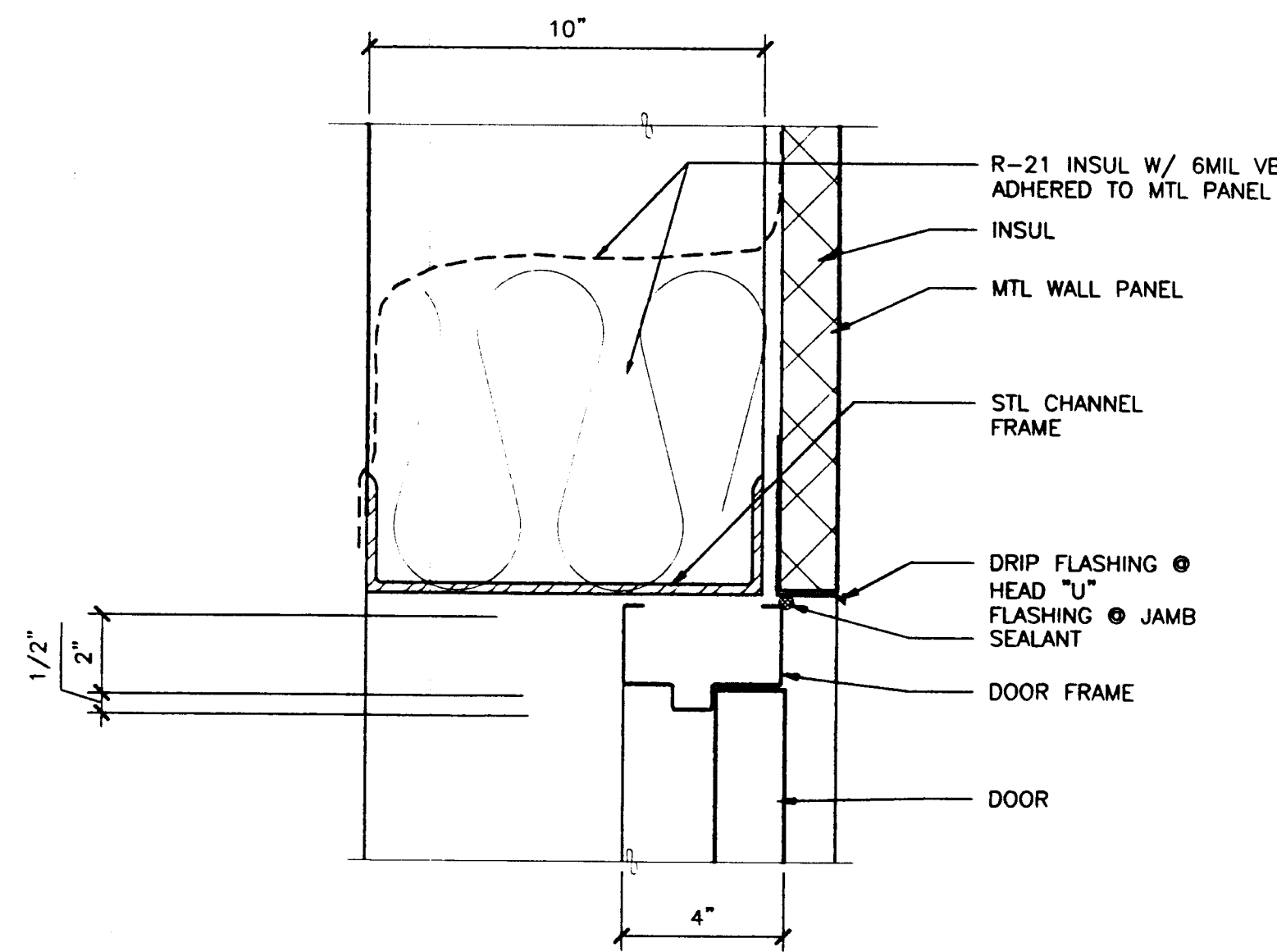
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SOUTHEAST REGION

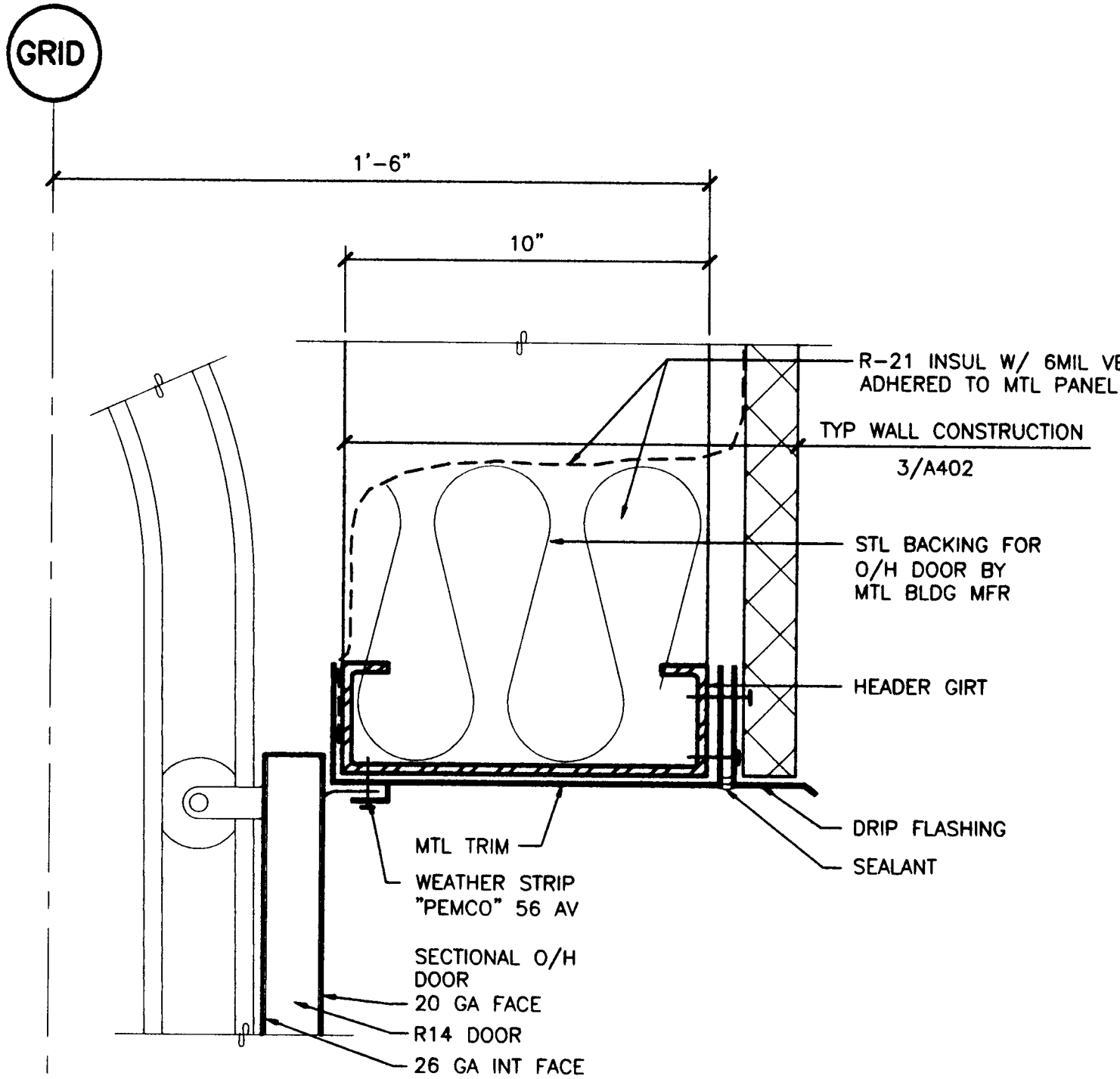
**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

DESIGNED BY:	A305
DRAWN BY:	PROJECT NO. 67547 AIP-3-02-0323-0902
CHECKED BY:	DATE: NOVEMBER 21, 2001
	SHEET 10 OF 30

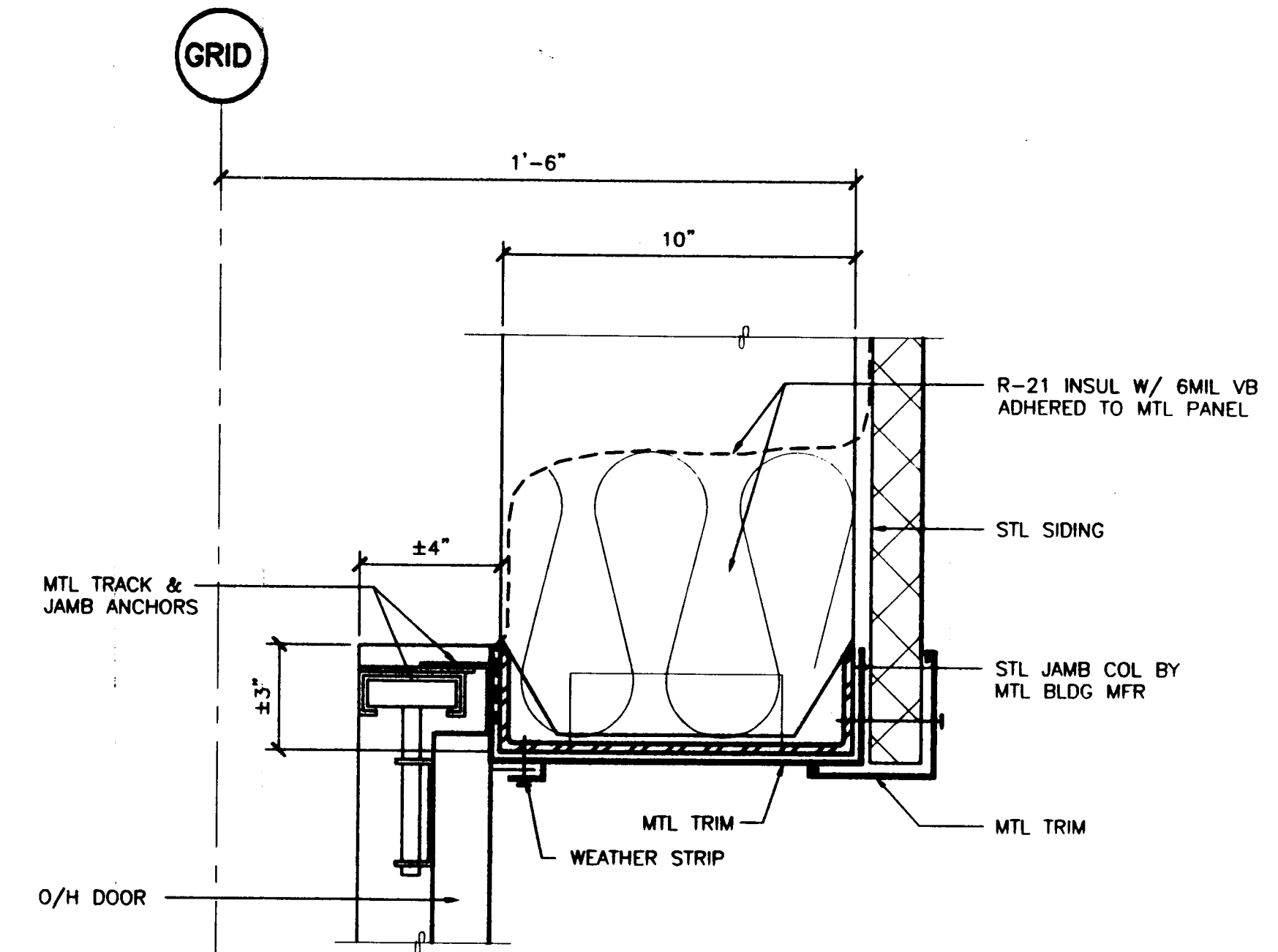




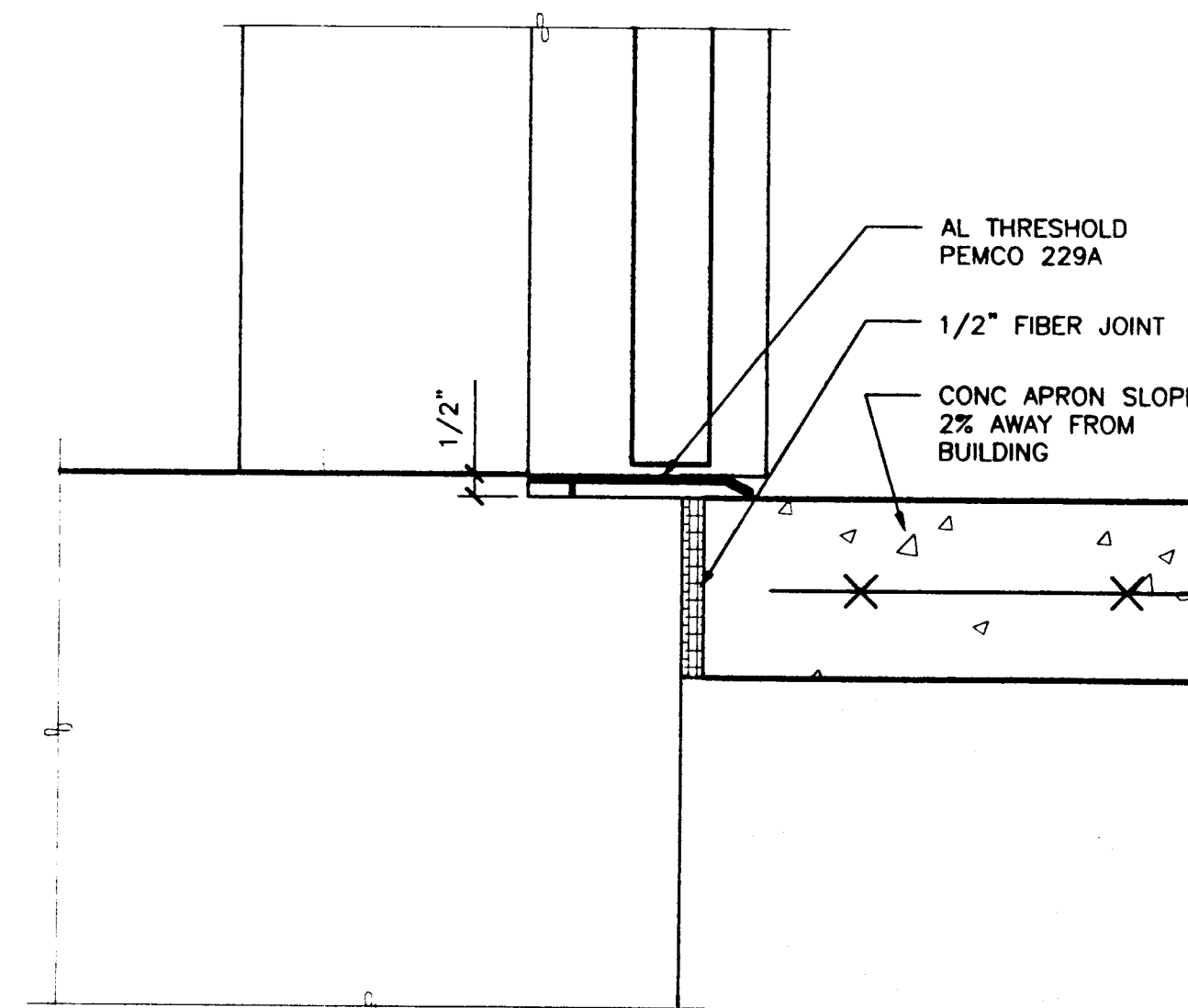
1 DOOR HEAD/JAMB SIM  
A401 SCALE: 0 3" 6" 1'



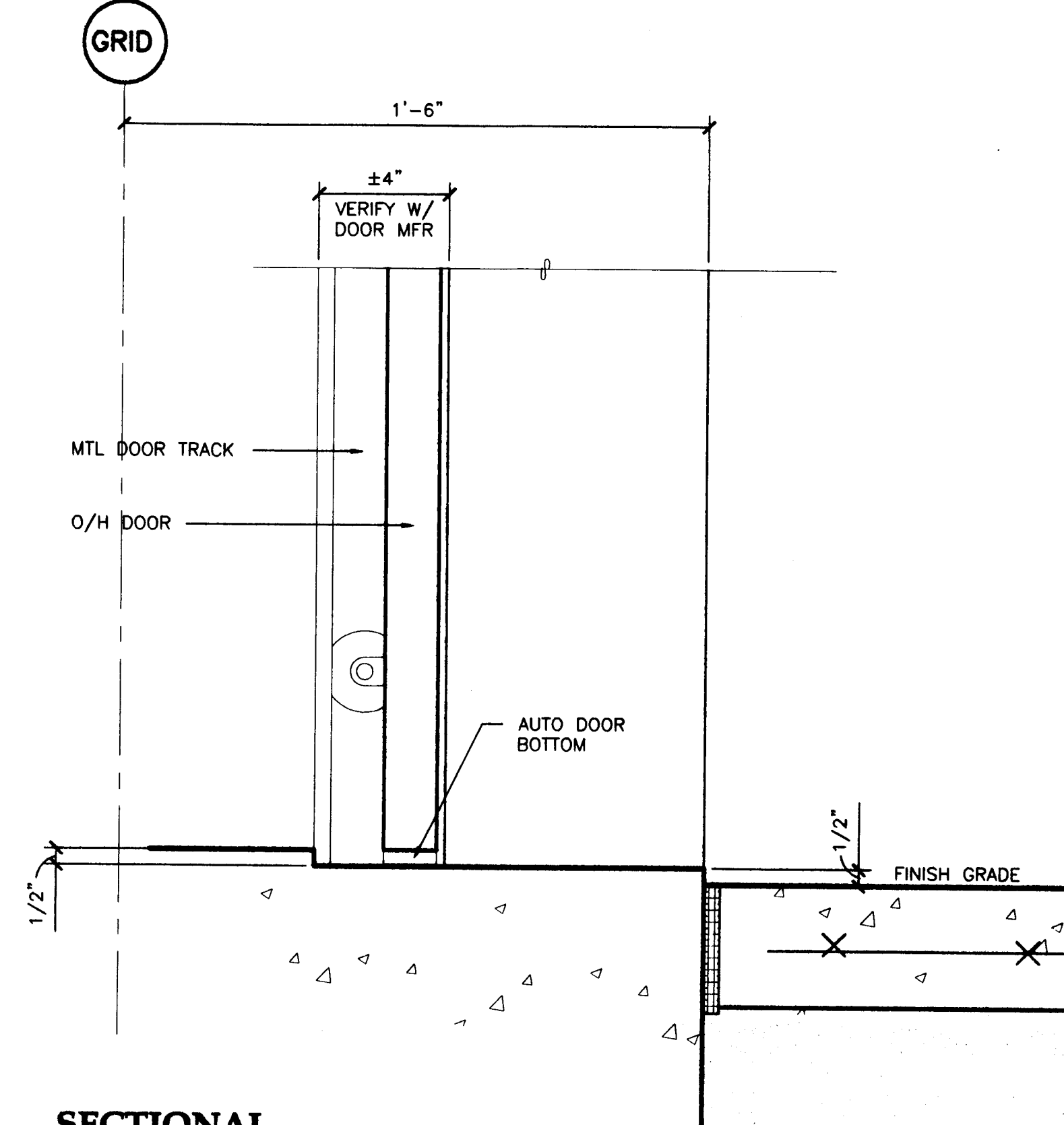
2 SECTIONAL DOOR HEAD  
A401 SCALE: 0 3" 6" 1'



3 SECTIONAL DOOR JAMB  
A401 SCALE: 0 3" 6" 1'

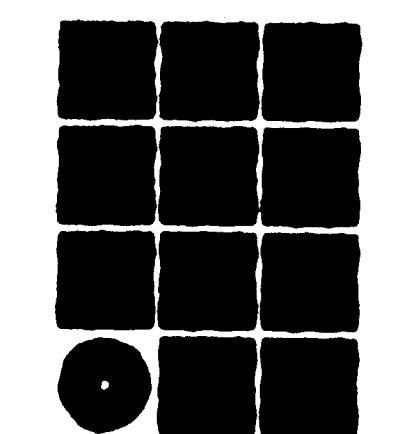


4 DOOR THRESH  
A401 SCALE: 0 3" 6" 1'



5 SECTIONAL DOOR THRESH  
A401 SCALE: 0 3" 6" 1'

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date: 1/2/03



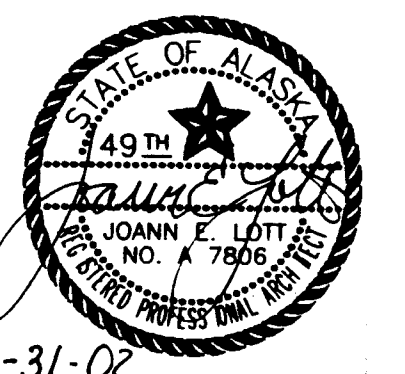
**Jensen  
Yorba  
Lott  
Inc.**

522 West 10th Street  
Juneau, Alaska 99801  
phone 907-586-1070  
fax 907-586-3959  
jensenyorbalott.com

**NOTE:**  
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

A401

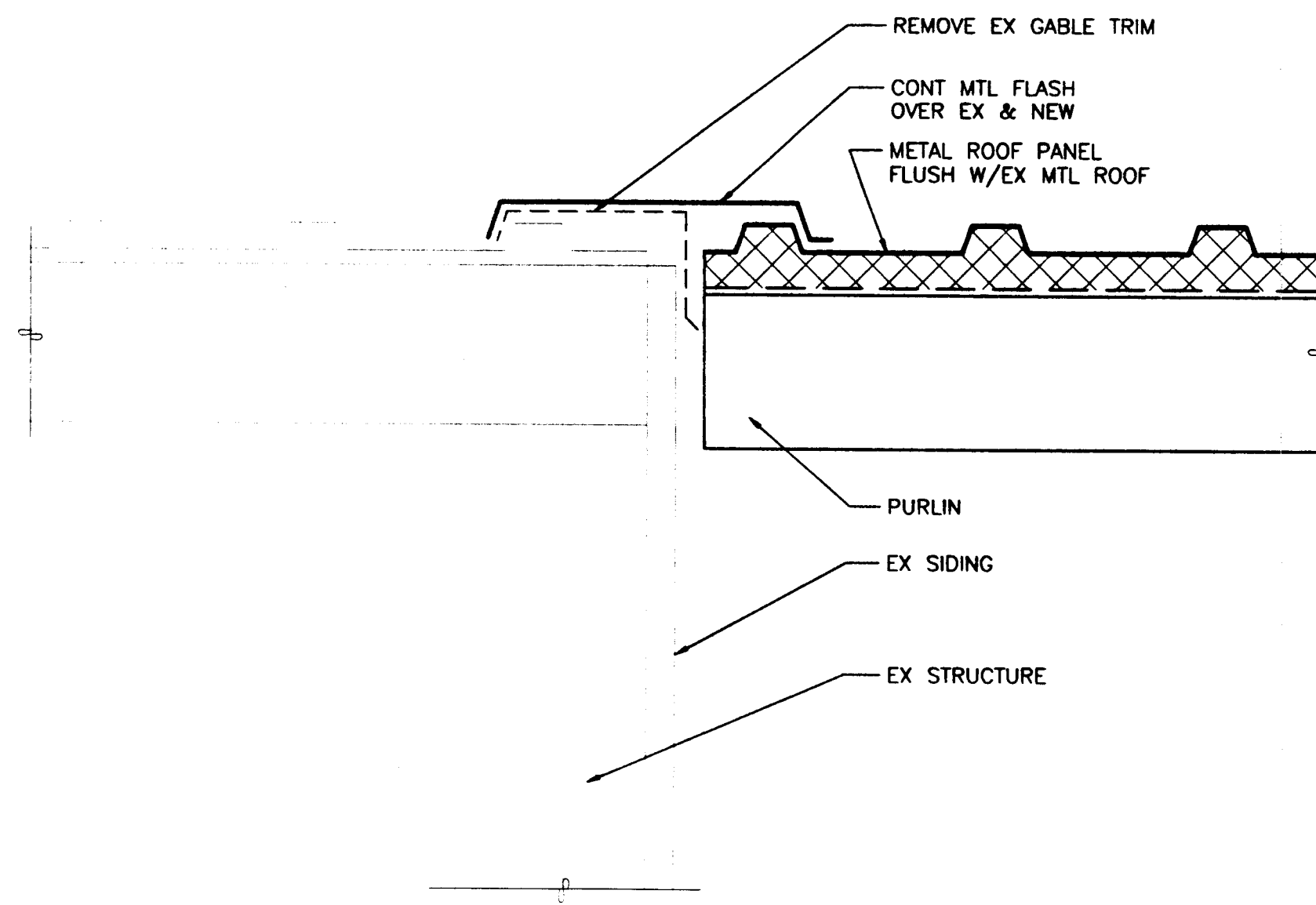
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AIP-3-02-0323-0902  
DRAWN BY: DATE: NOVEMBER 21, 2001  
CHECKED BY: SHEET 11 OF 30



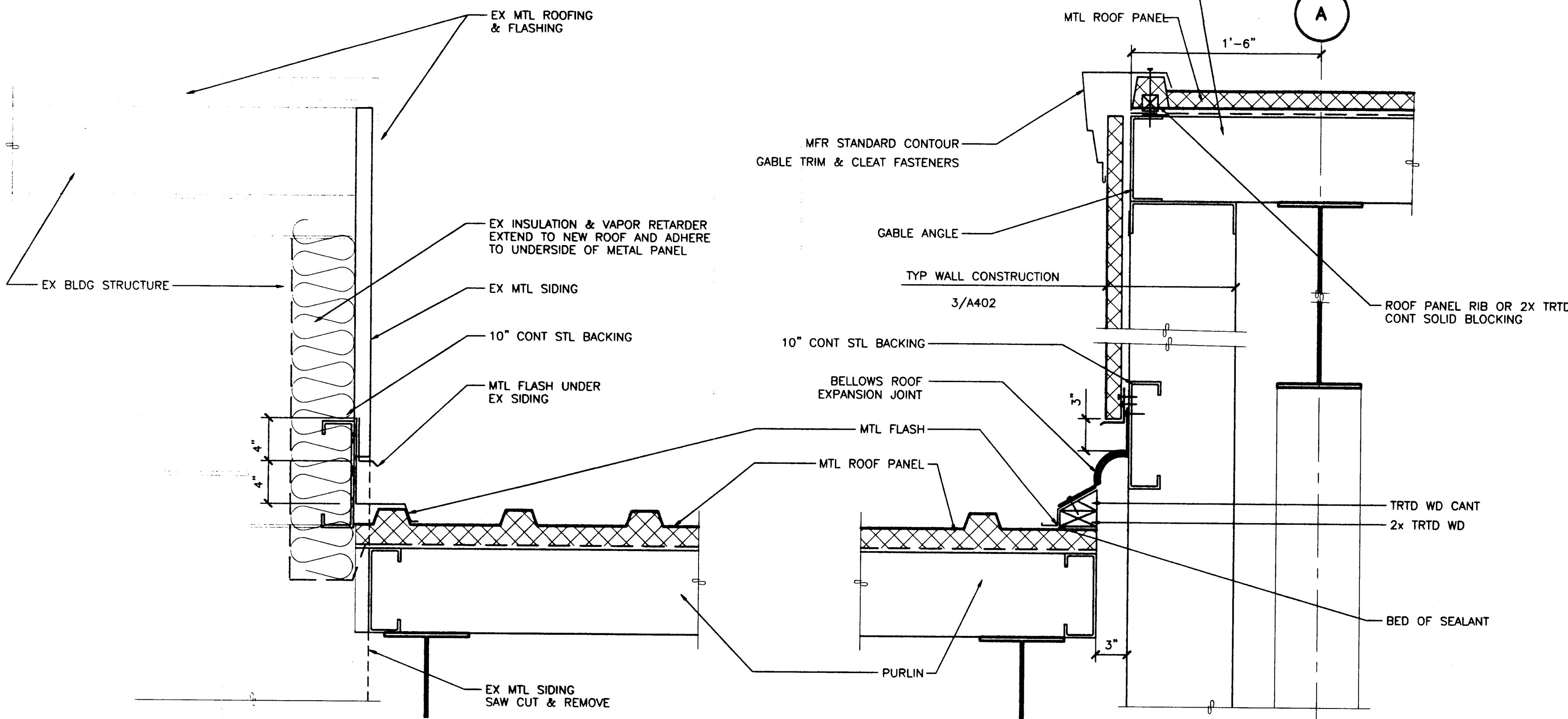
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

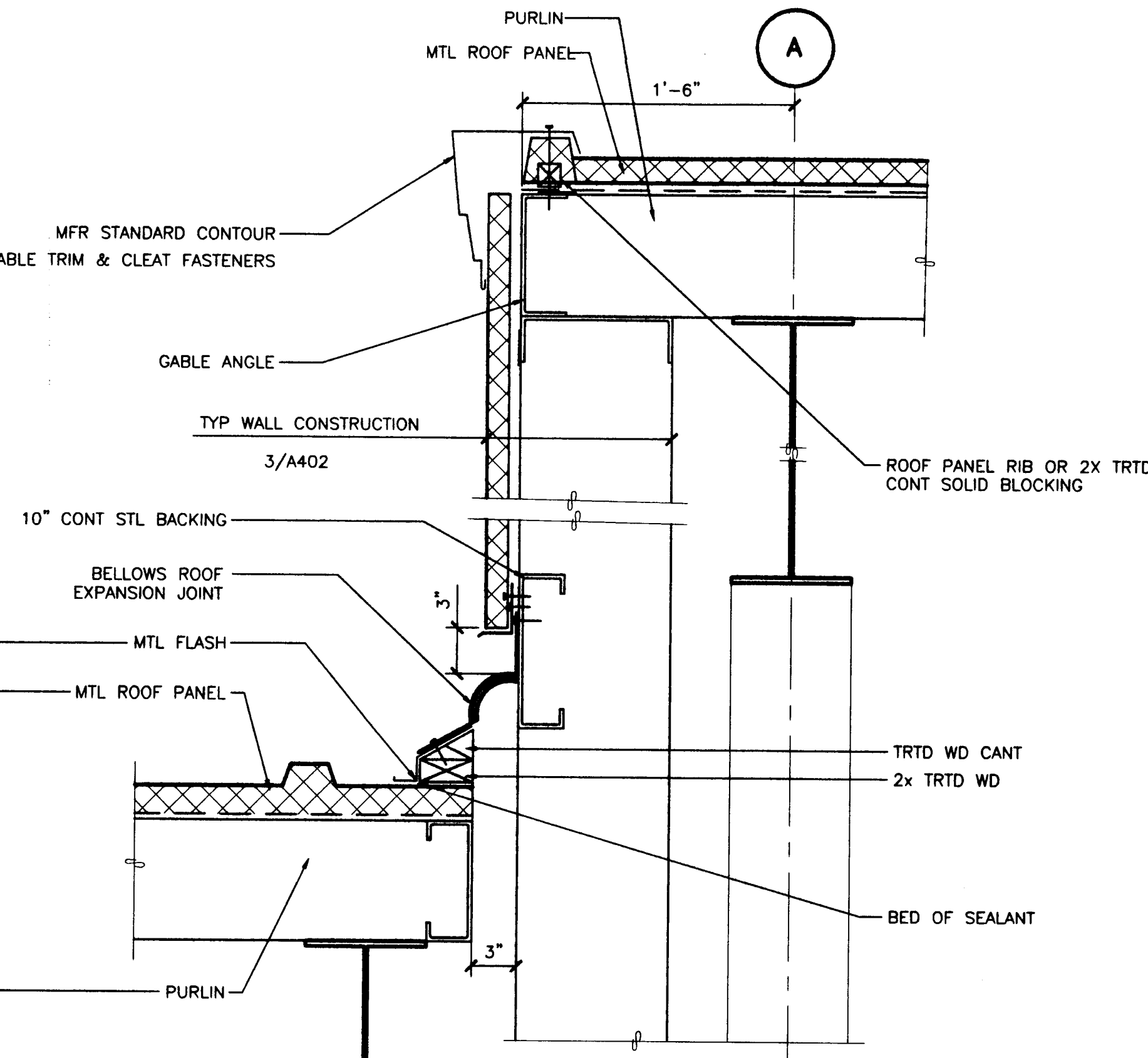
RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:



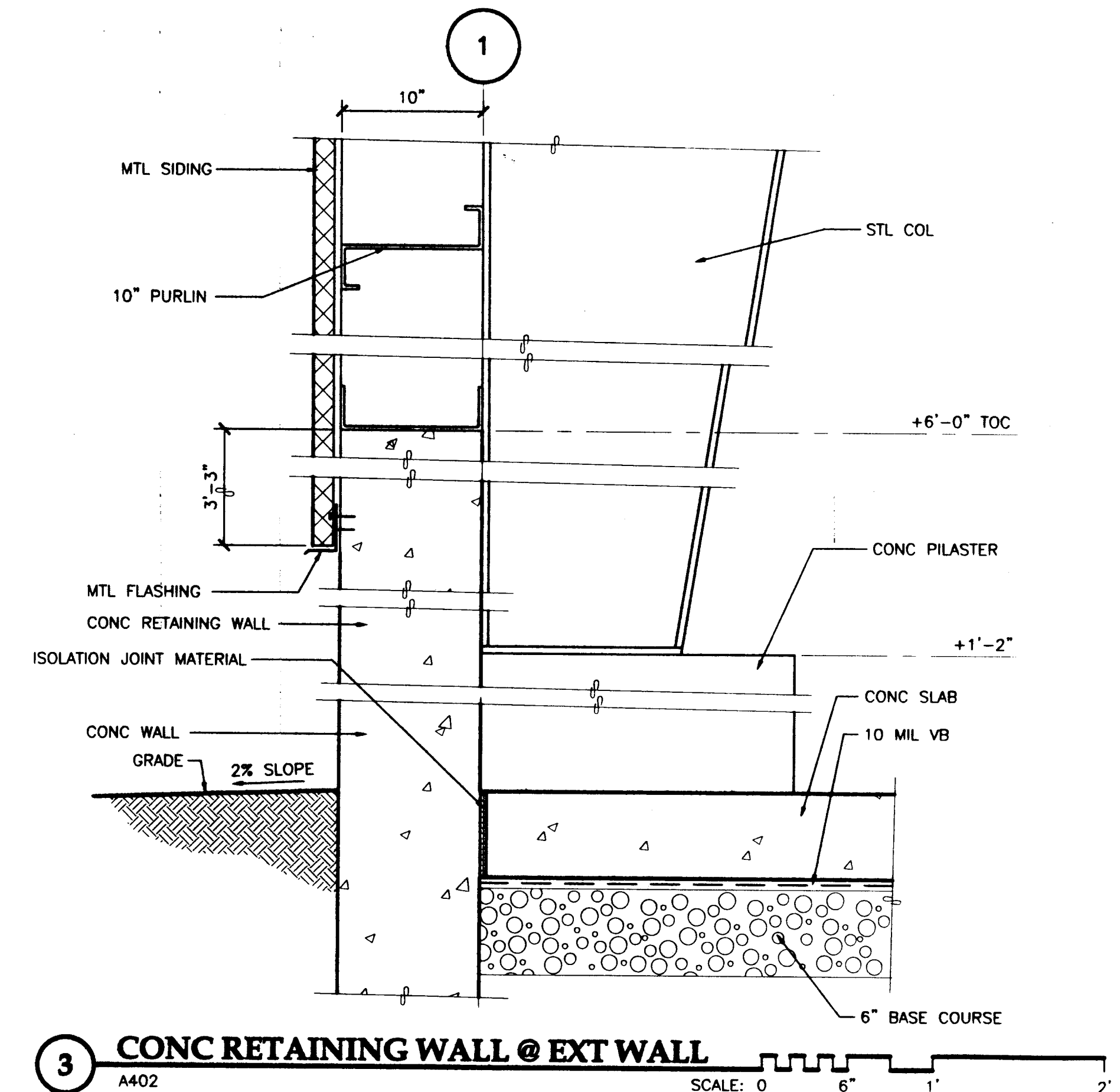
**1 EX ROOF TO NEW ROOF**  
A402 SCALE: 0 6" 1' 2'



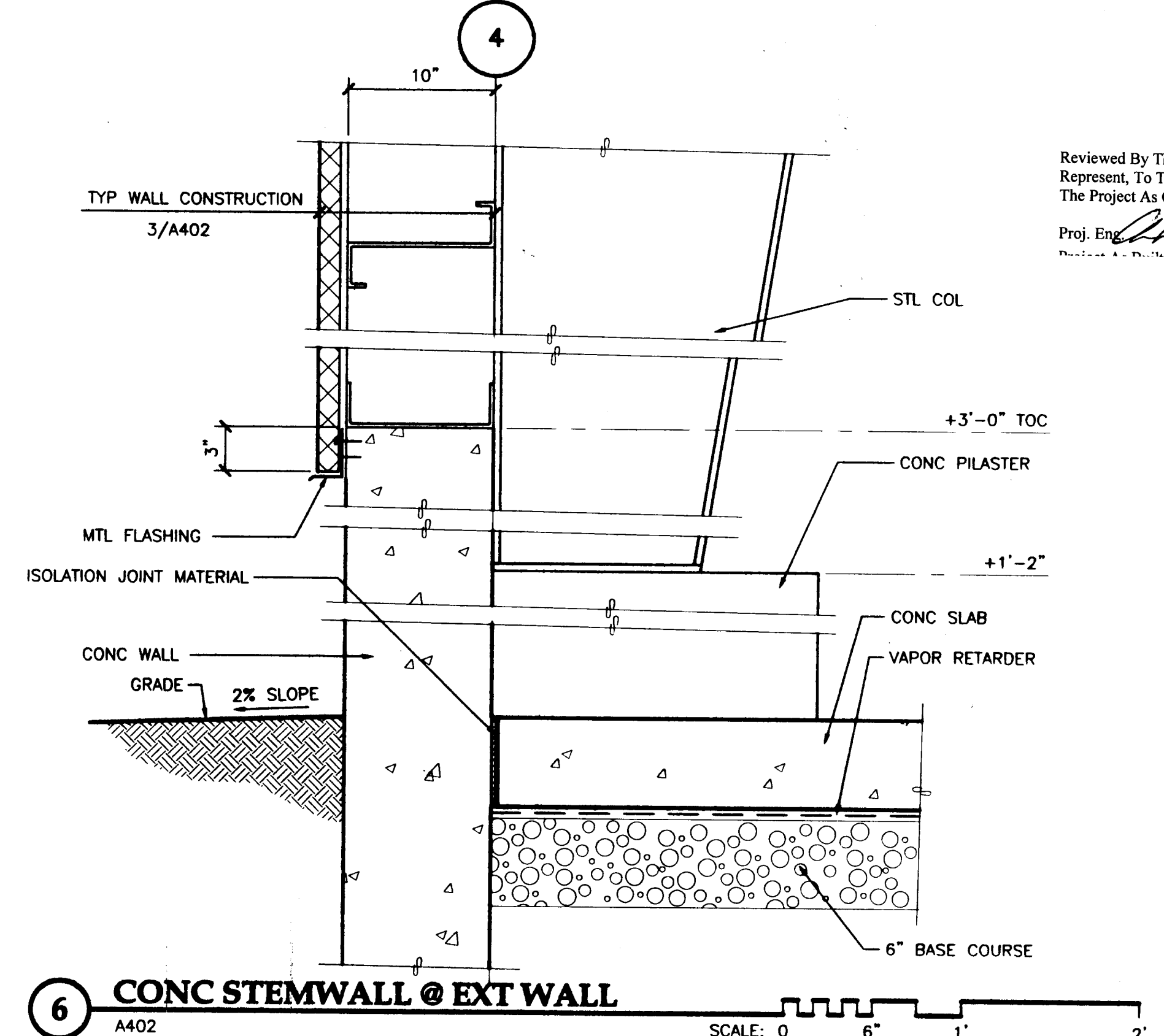
**4 EX WALL TO NEW ROOF**  
A402 SCALE: 0 6" 1' 2'



**5 EXPANSION JOINT @ ROOF ASSEMBLY**  
A402 SCALE: 0 6" 1' 2'

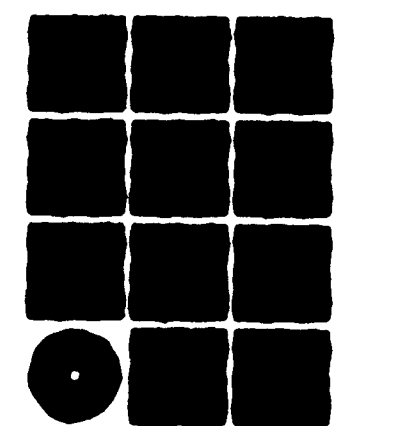


**3 CONC RETAINING WALL @ EXT WALL**  
A402 SCALE: 0 6" 1' 2'



**6 CONC STEMWALL @ EXT WALL**  
A402 SCALE: 0 6" 1' 2'

Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date 4/6/03



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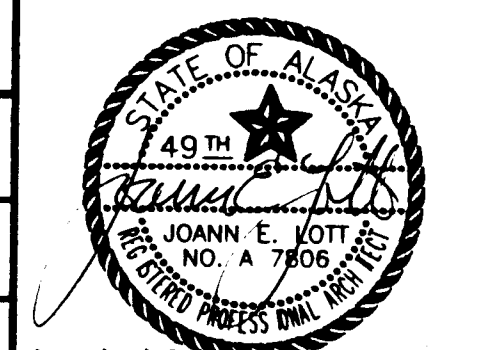
**NOTE:**  
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS

RECORD OF REVISIONS		
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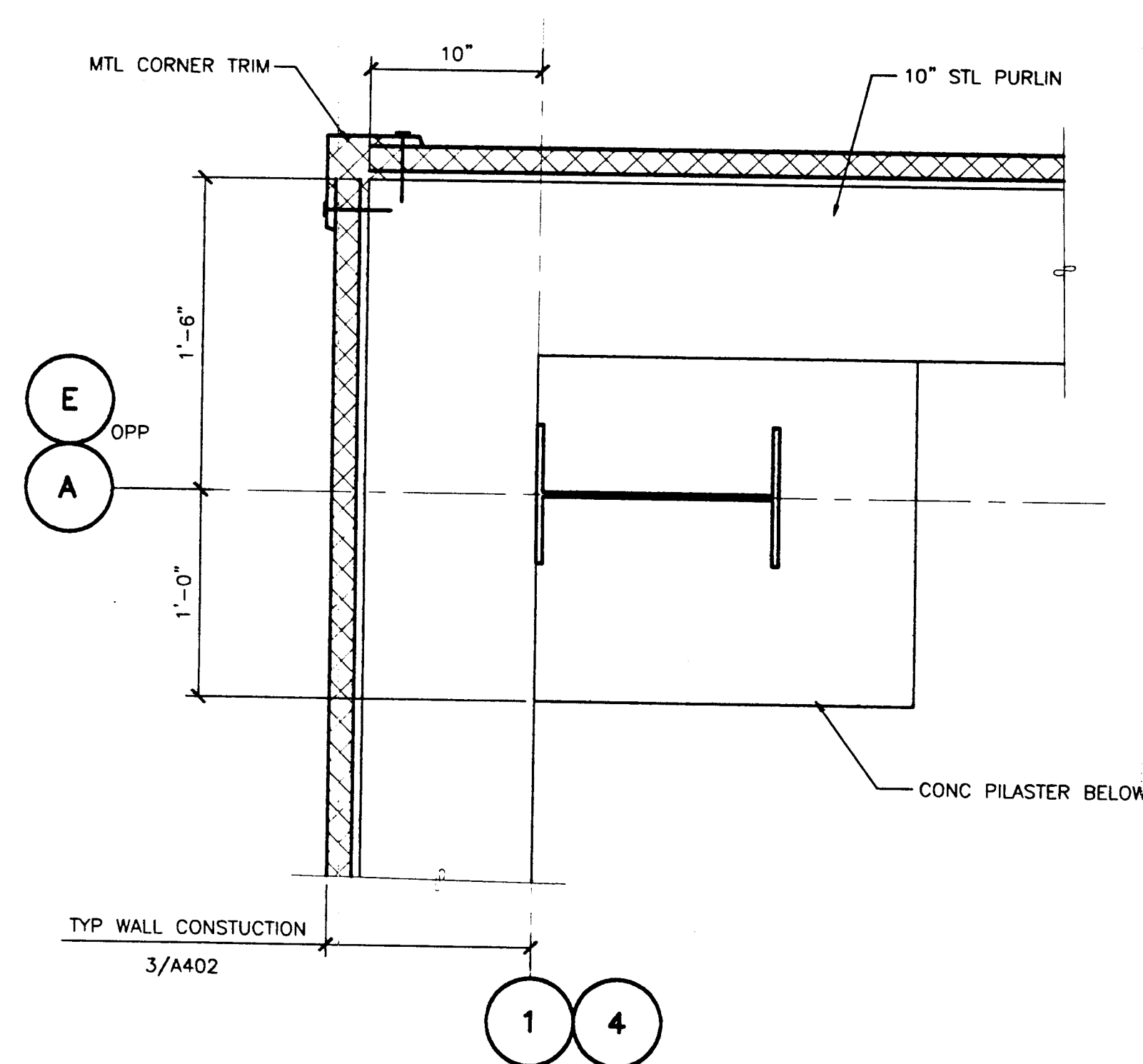
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

DESIGNED BY:	PROJECT NO. 67547 AIP-3-02-0323-0902
DRAWN BY:	DATE: NOVEMBER 21, 2001
CHECKED BY:	SHEET 12 OF 30

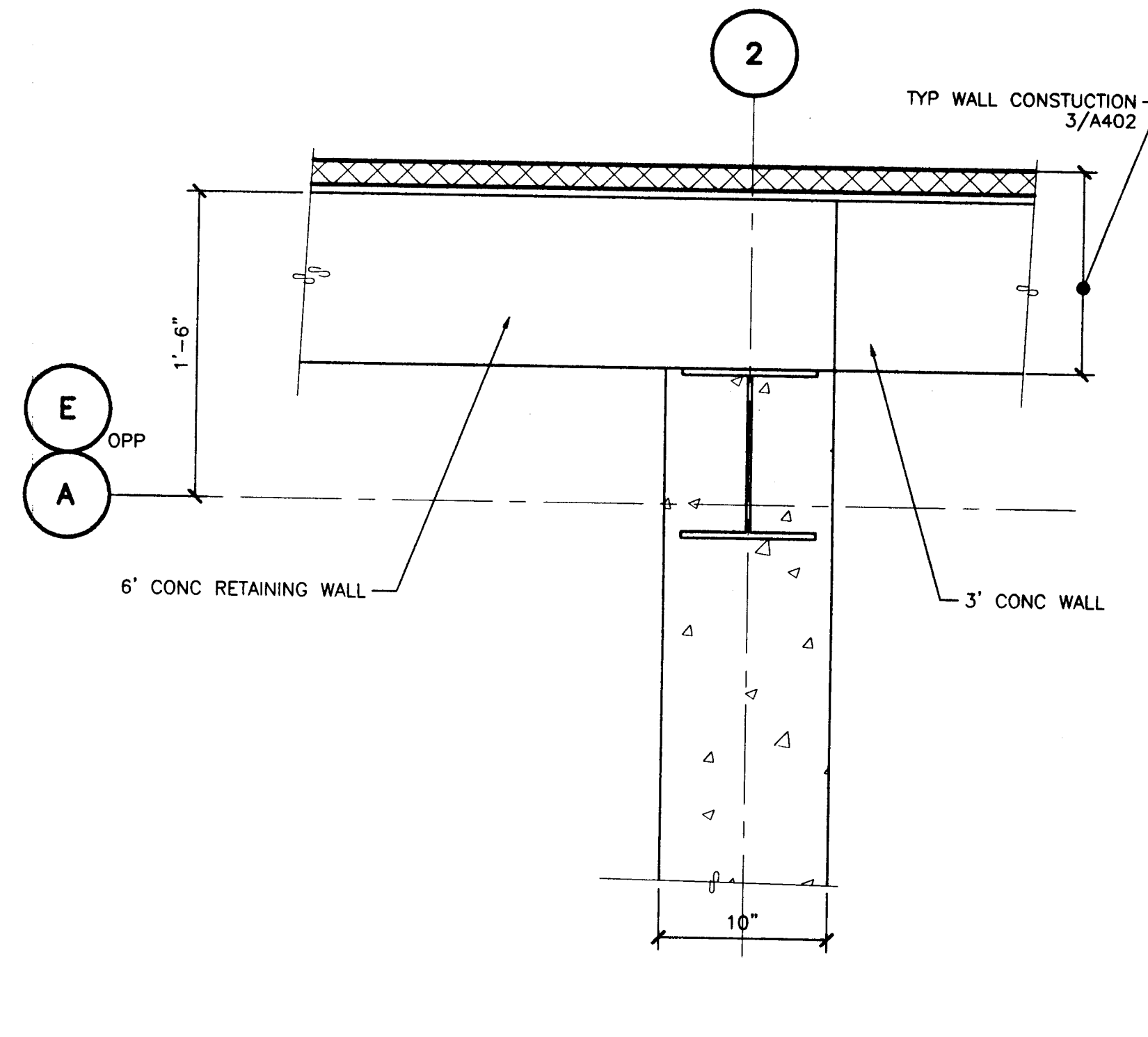






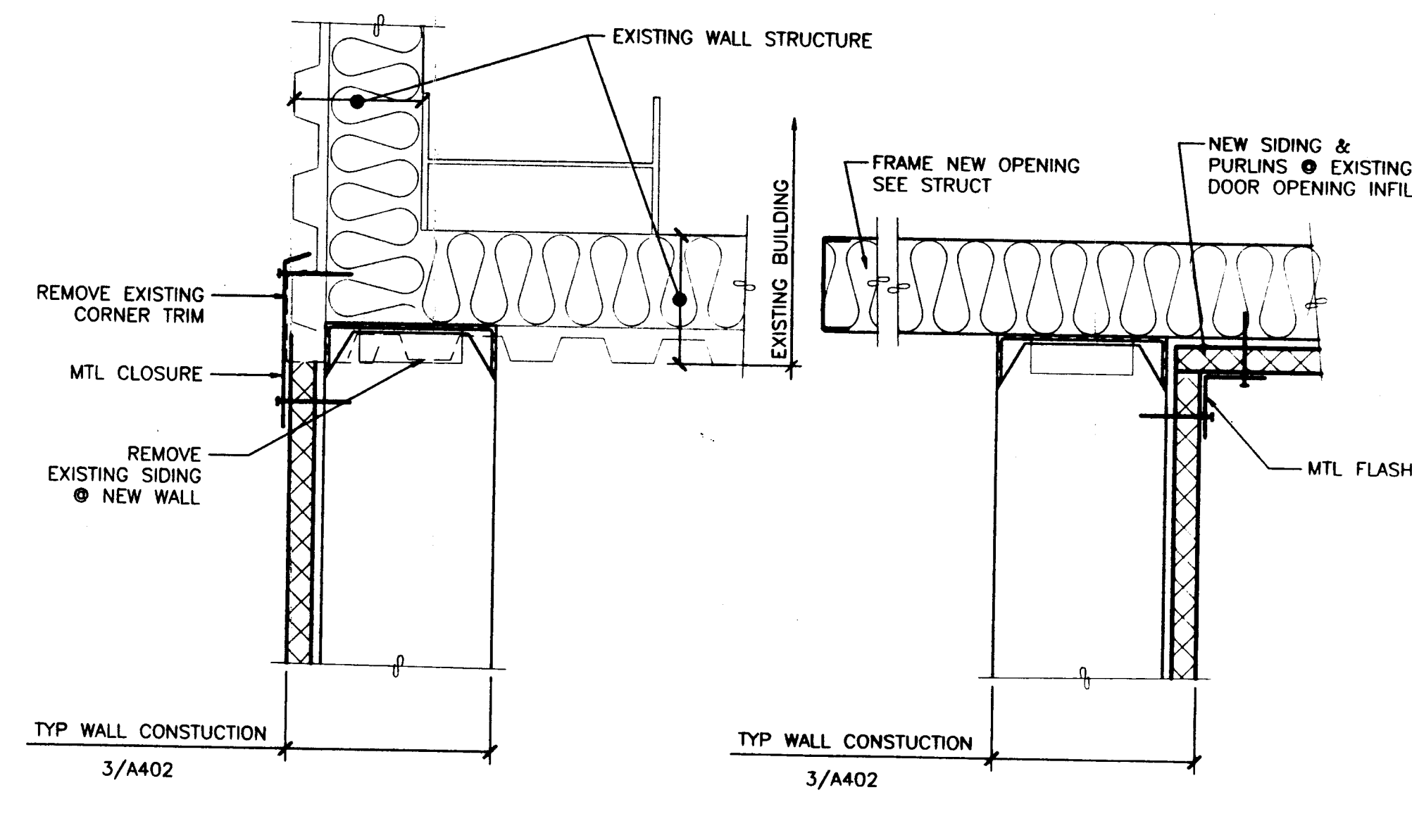
**1 PLAN @ CORNER**  
A403

SCALE: 0 6" 1' 2'



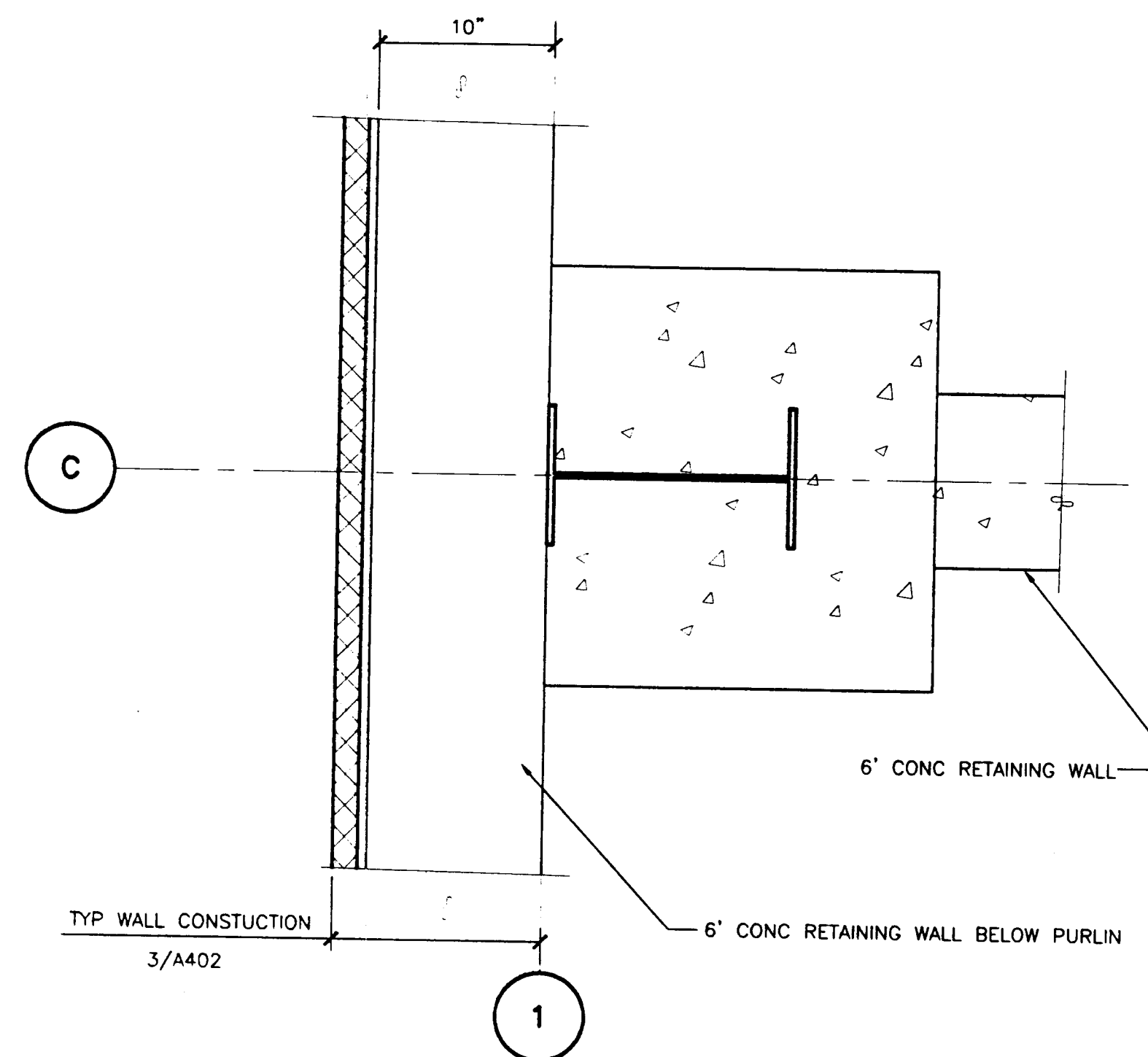
**2 CONC RETINING WALL @ END WALL COLUMN**  
A403

SCALE: 0 6" 1' 2'



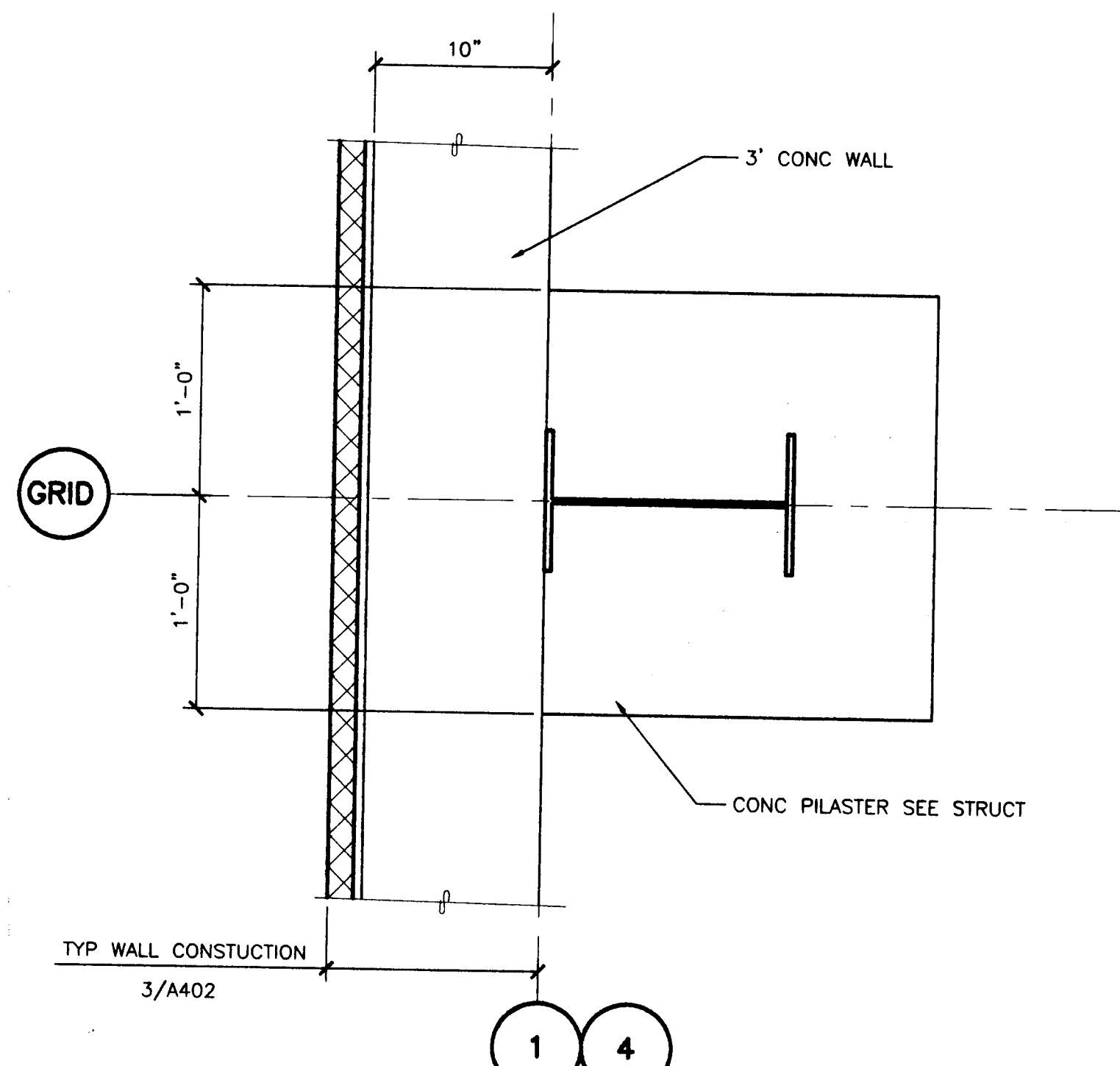
**3 WALL CONNECTION @ EXISTING**  
A403

SCALE: 0 6" 1' 2'



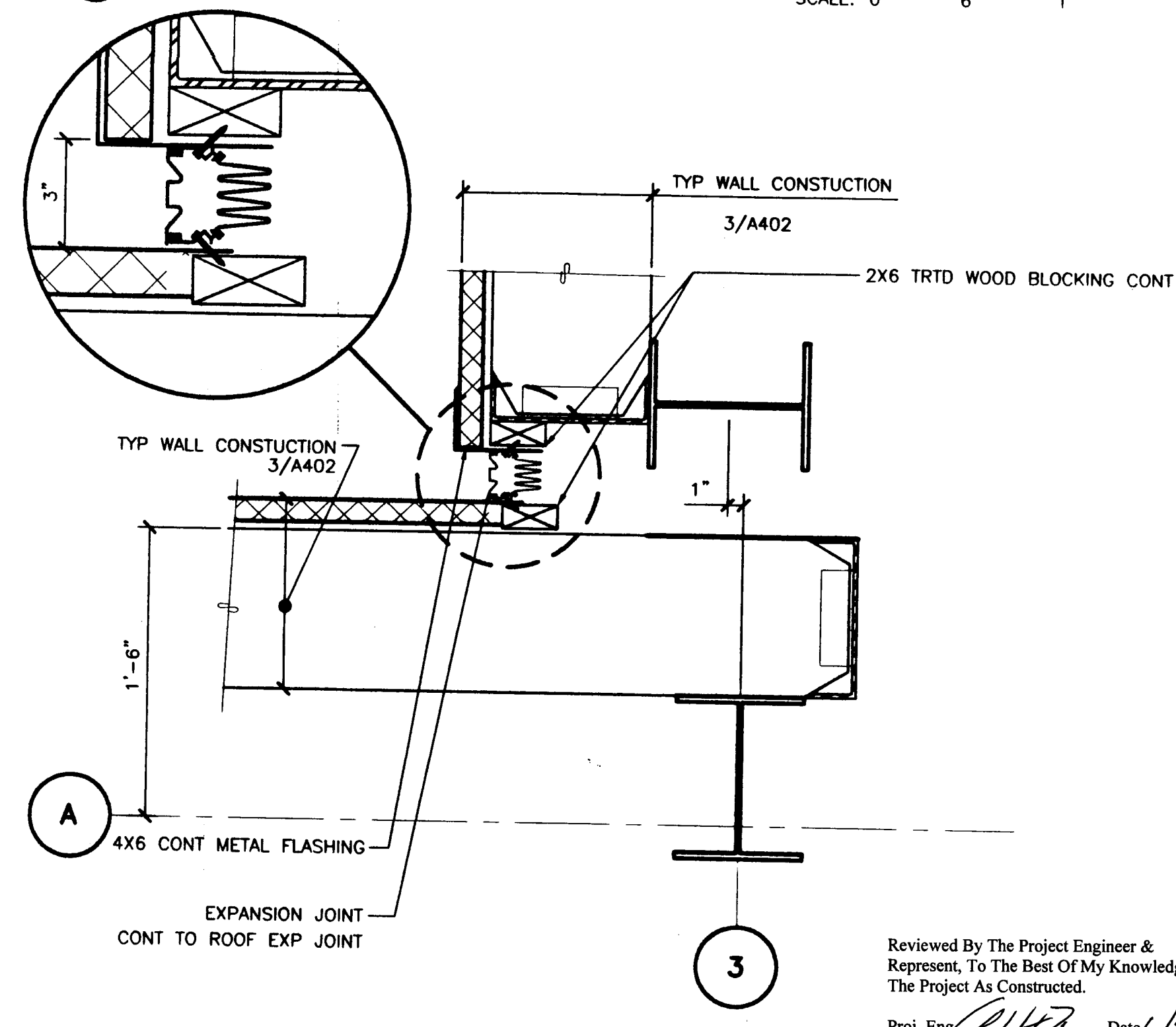
**4 COL @ CONC PILASTER & CONC RETAINING WALL**  
A403

SCALE: 0 6" 1' 2'



**5 COL @ CONC PILASTER TYP**  
A403

SCALE: 0 6" 1' 2'



**6 EXPANSION JOINT**  
A403

SCALE: 0 6" 1' 2'

Reviewed By The Project Engineer &  
Represent, To The Best Of My Knowledge,  
The Project As Constructed.  
Proj. Eng. *[Signature]* Date 6/1/03

DATE	DESCRIPTION OF CHANGE

**RECORD OF REVISIONS**

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

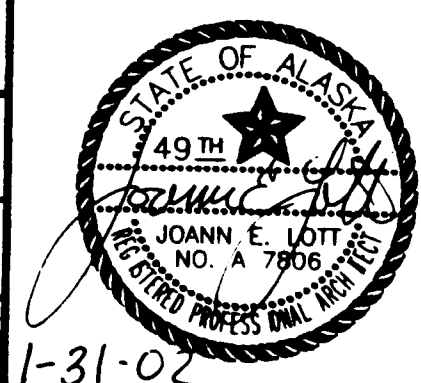
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:

**A403**  
**PROJECT NO. 67547**  
**AIP-3-02-0323-0902**  
**DATE:**  
**NOVEMBER 21, 2001**  
**SHEET 13 OF 30**

**NOTE:**  
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jensenyorbalott.com



# GENERAL NOTES:

- EXISTING TOPOGRAPHIC INFORMATION WAS TAKEN FROM A TOPO SURVEY BY DOT&PF PERFORMED 2001 FOR THE SITE AND PERFORMED JUNE 2001 FOR THE WATERLINE. CONTRACTOR SHALL VERIFY SITE CONDITIONS.
- SOILS INFORMATION IS DERIVED FROM SOILS INVESTIGATION PERFORMED BY DOT&PF DATED APRIL 12, 2000 FOR THE BUILDING SITE AND REPORT DATED MAY 2, 2000 FOR THE WATERLINE. THESE REPORTS ARE INCLUDED IN THE SPECIFICATIONS.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATION BY OBTAINING LOCATES PRIOR TO START OF CONSTRUCTION AND EXERCISE CAUTION DURING EXCAVATION.
- VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS-BUILT PLANS.
- RESTORE ALL DISTURBED PROPERTY TO MATCH EXISTING CONDITIONS, EXCEPT AS SHOWN OTHERWISE.
- FOR THE MUSKEG WETLANDS BETWEEN THE HIGHWAY DITCH AND THE BUILDING PAD:
  - STAKE LIMITS OF CONSTRUCTION IN WETLANDS PRIOR TO BEGINNING ANY CONSTRUCTION.
  - SALVAGE VEGETATIVE MAT AND REPLACE AFTER TRENCH IS BACKFILLED.
- BEDROCK BLASTING IS PROHIBITED BETWEEN MARCH 1ST AND MAY 30TH. AFTER MAY 30TH, BEDROCK BLASTING MAY OCCUR. HOWEVER, IF THE EAGLE NEST SHOWN IS BEING USED AFTER MAY 30TH, THE NEST WILL BE MONITORED. A VIDEO TAPE OF THE NEST WILL BE TAKEN AND THE ACTIVITIES OF THE NEST'S OCCUPANTS WILL BE DOCUMENTED BY THE PROJECT ENGINEER. IF NEST DISTURBANCE IS OBSERVED, DUE TO THE BLASTING ACTIVITIES, BLASTING WILL BE CURTAILED AND THE FISH AND WILDLIFE SERVICE WILL BE CONTACTED BEFORE BLASTING ACTIVITIES ARE RESUMED.

EAGLE NESTING TREE:  
SEE NOTE 7

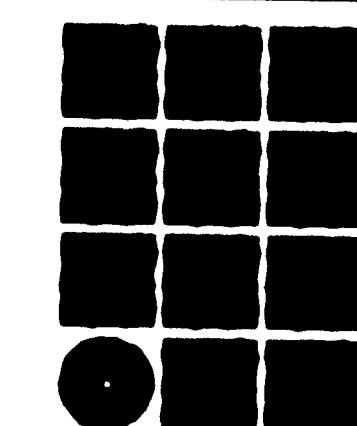
STORM DRAIN PIPE SUMMARY TABLE				
PIPE	DIAMETER	LENGTH	SLOPE	TYPE
SD-1	18" CPP	61.73	1.00%	STORM DRAIN
SD-2	18" CPP	133.53	1.00%	STORM DRAIN
SD-3	18" CPP	115.41	1.00%	STORM DRAIN

NOTE: PIPE LENGTH & SLOPE CALCULATED FROM FACE OF STRUCTURE

PLAN VIEW SYMBOLS		
GENERAL	EXISTING	PROPOSED
BUILDING		
DITCH OR STREAM FLOW		
CONTOUR		
SURFACE GRADE		
SPOT ELEVATION		
EDGE OF PAVEMENT		
EDGE OF CONCRETE		
EAGLE TREE		
BOLLARD		
STORM DRAIN		
STORM DRAIN MANHOLE		
WATER LINE		
FIRE HYDRANT		
GATE VALVE		
TEE		
SANITARY SEWER		
CLEAN OUT		
PRESSURE SEWER SERVICE		
FLOOR DRAIN		
POWER POLE		
UTILITY PEDESTALS		
OVERHEAD ELECTRICAL		
PRIMARY MONUMENTS		

Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 11/9/03



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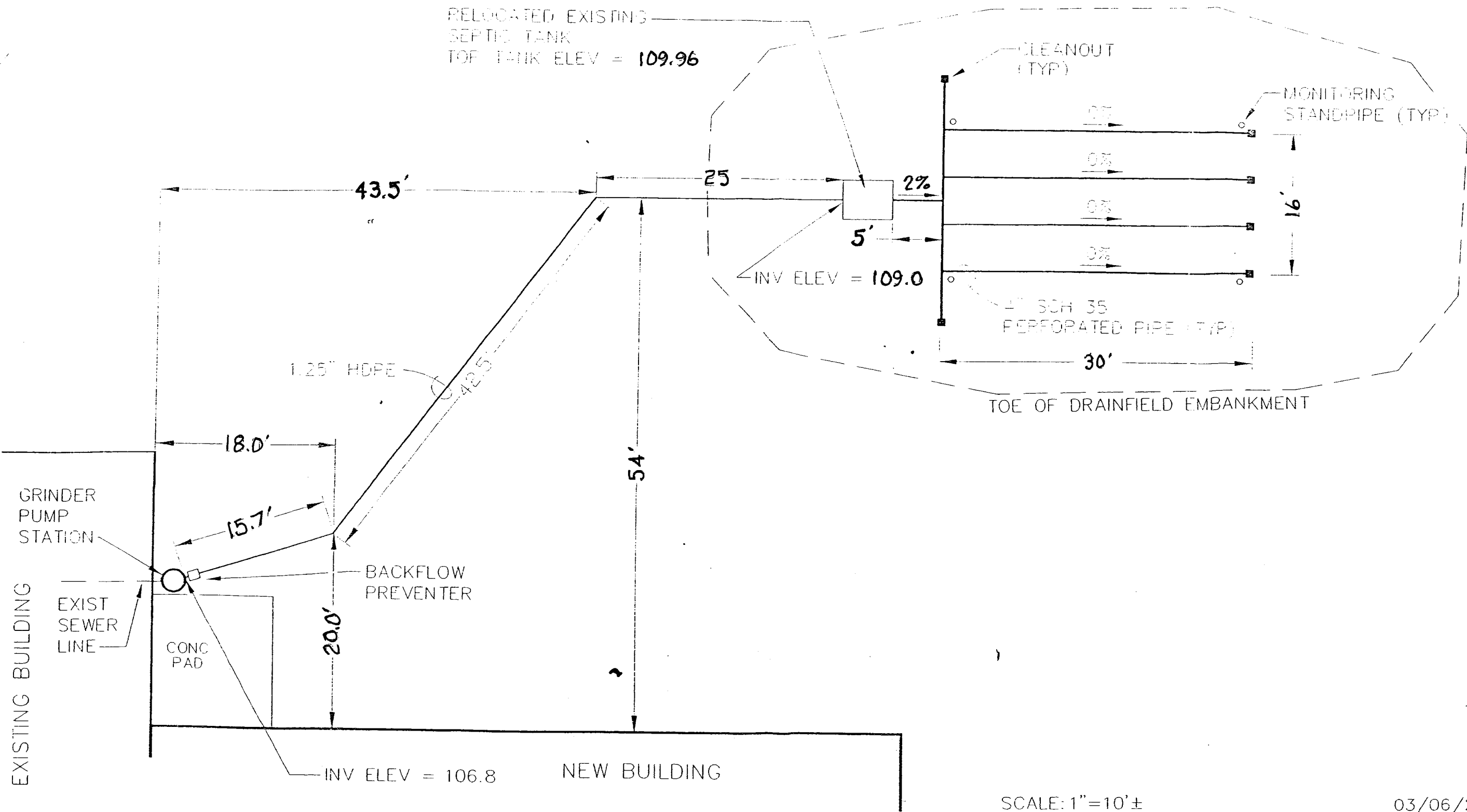
PATH: .		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

DESIGNED BY: *CB*  
DRAWN BY: *KL*  
CHECKED BY: *NCL*

**C101**  
**PROJECT NO. 07647**  
**AIP 3-02-0323-0002**  
**DATE:**  
**NOVEMBER 21, 2001**  
**SHEET 14 OF 30**



SCALE: 1"=10'±

03/06/2003

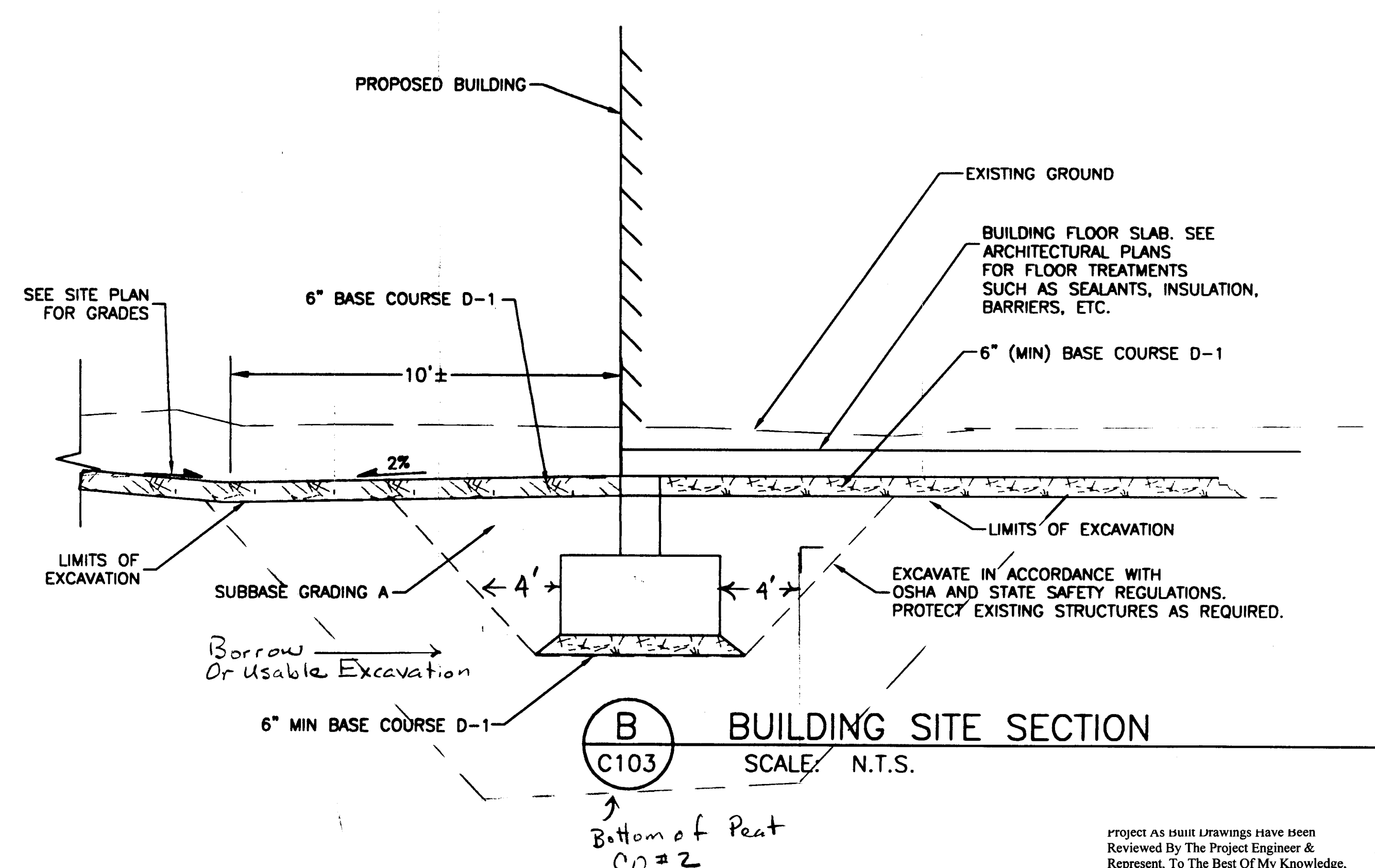
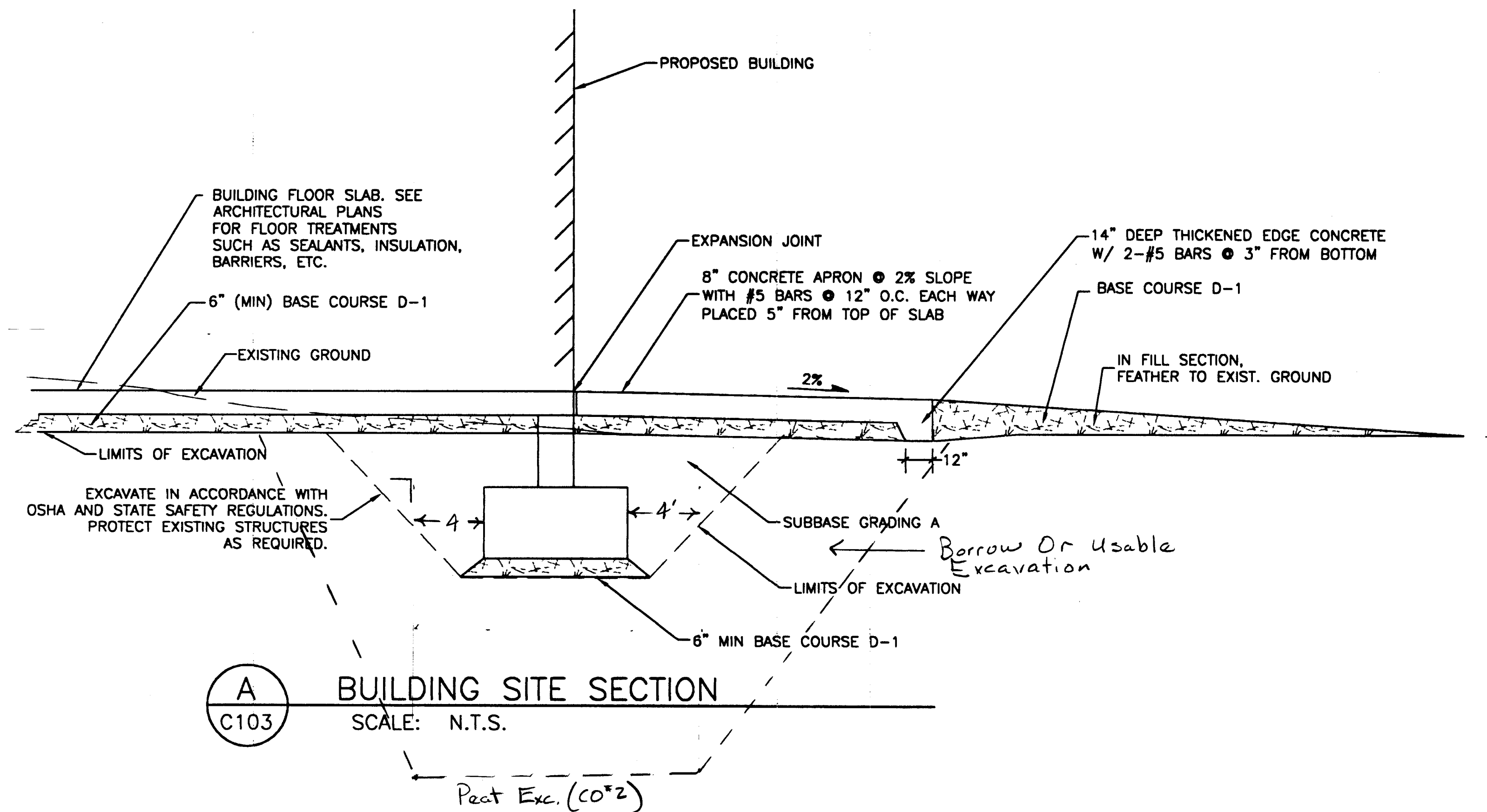
WRANGELL AIRPORT  
SAND AND CHEMICAL BUILDING  
SEPTIC SYSTEM AS-BUILT

WHITE ENTERPRISES BOX 523 WRANGELL, AK. 99929



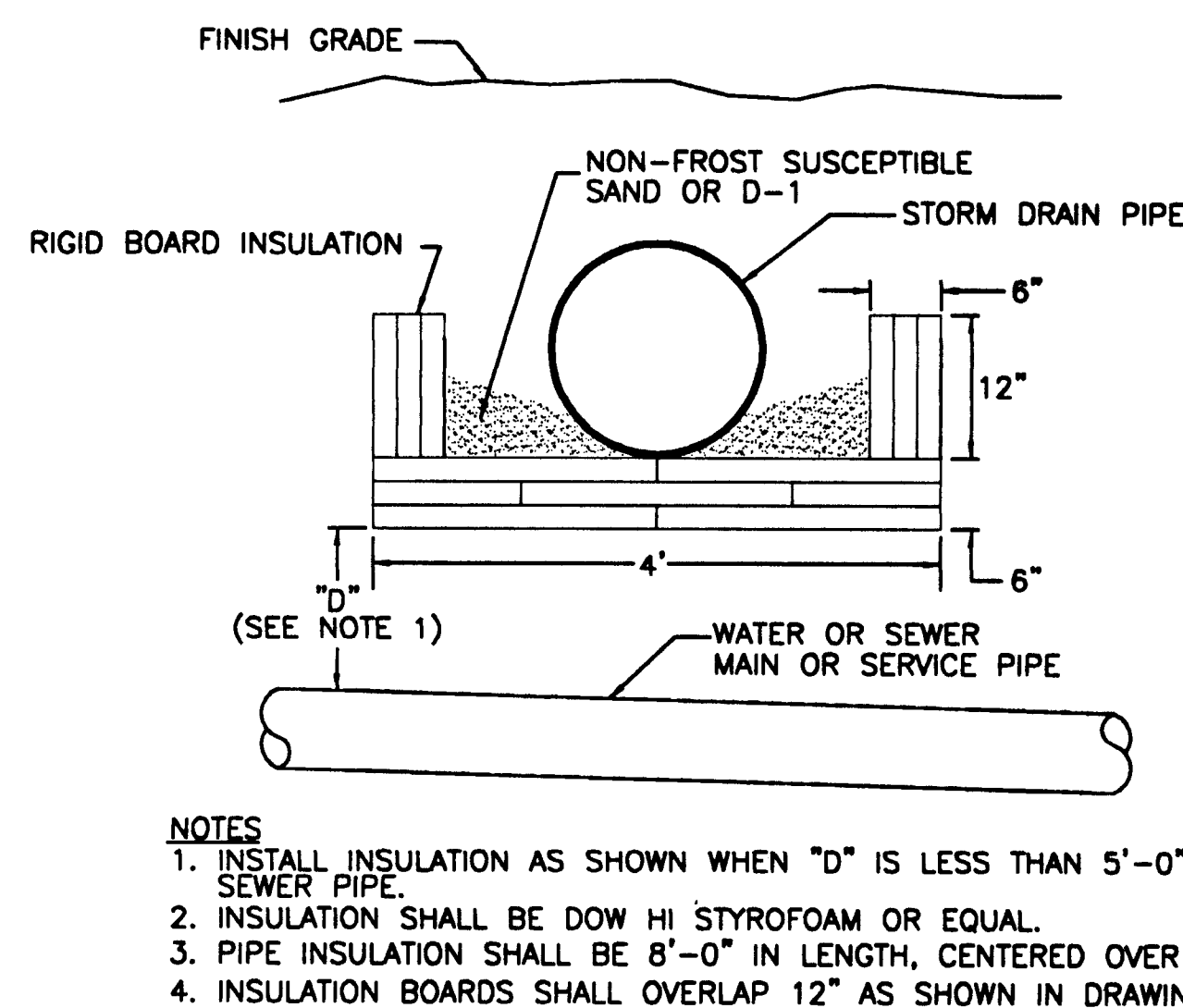
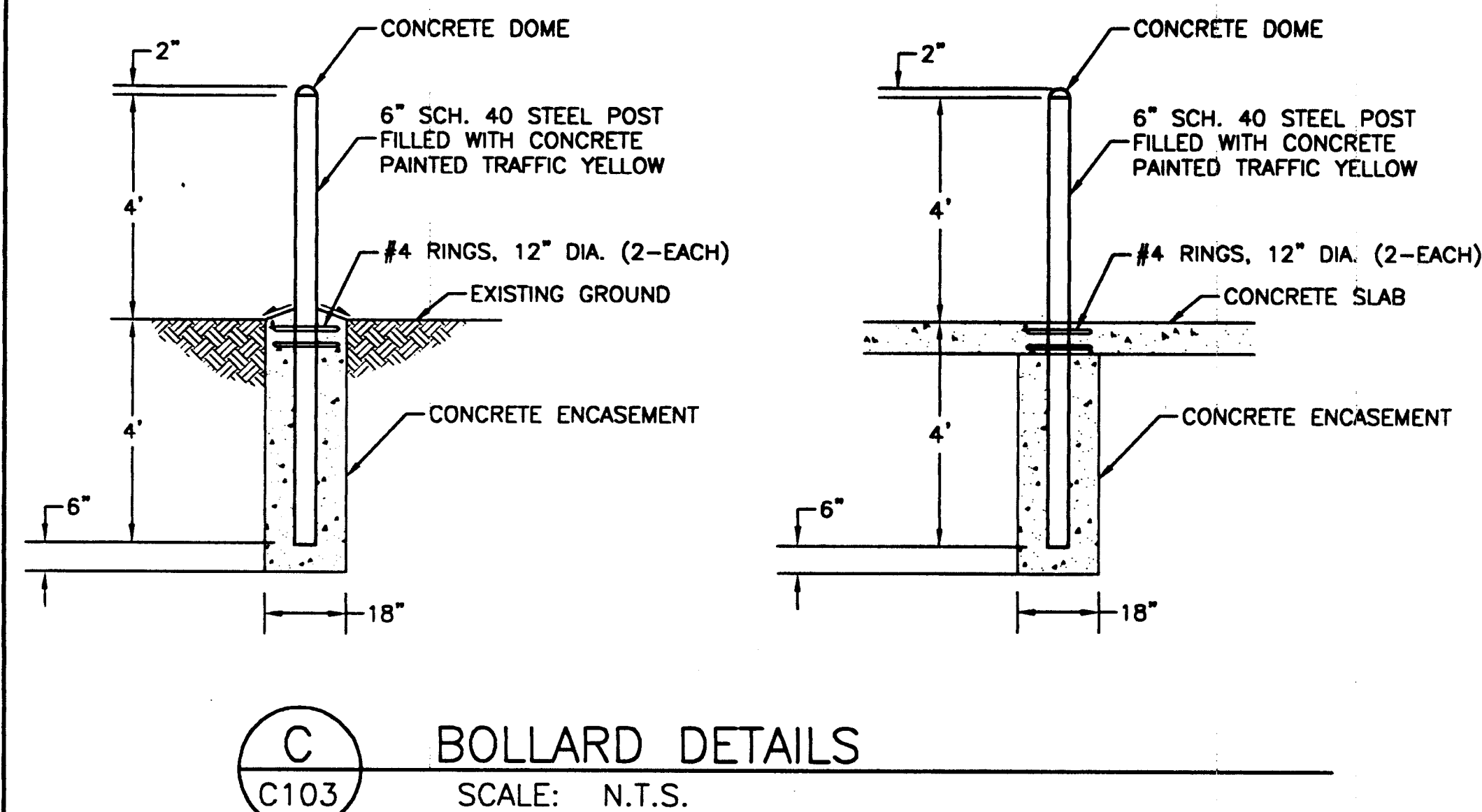




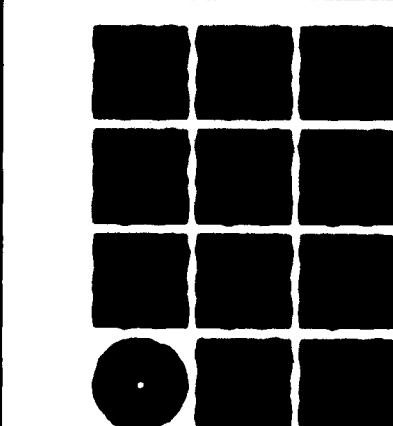
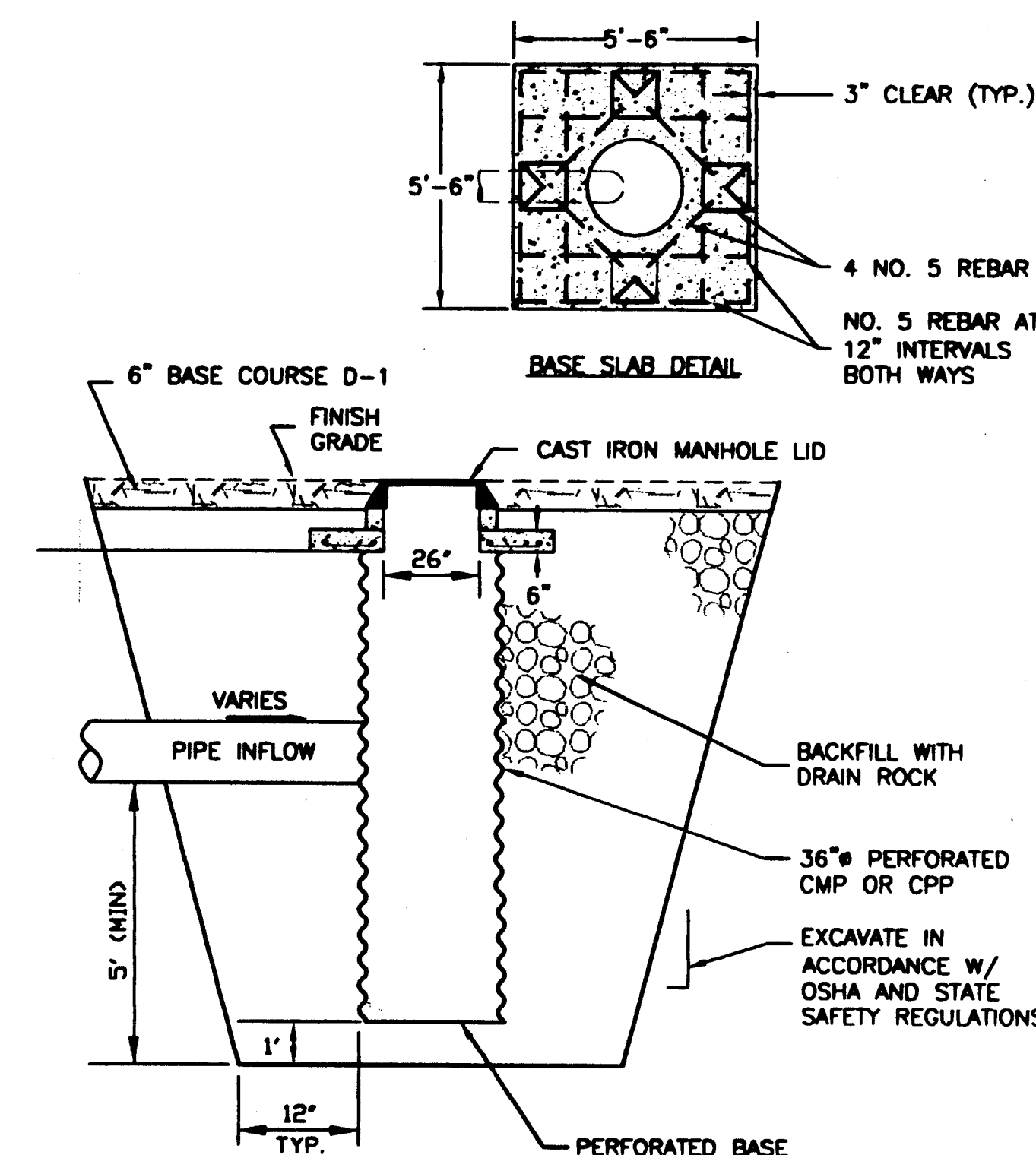


Project As Built Drawings Have been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 6/10/03



- NOTES
1. INSTALL INSULATION AS SHOWN WHEN "D" IS LESS THAN 5'-0" FOR WATER PIPE OR 3'-8" FOR SEWER PIPE.
  2. INSULATION SHALL BE DOW HI STYROFOAM OR EQUAL.
  3. PIPE INSULATION SHALL BE 8'-0" IN LENGTH, CENTERED OVER EXISTING WATER OR SEWER PIPE.
  4. INSULATION BOARDS SHALL OVERLAP 12" AS SHOWN IN DRAWING.

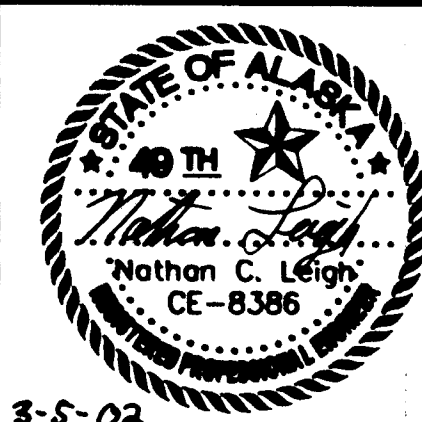


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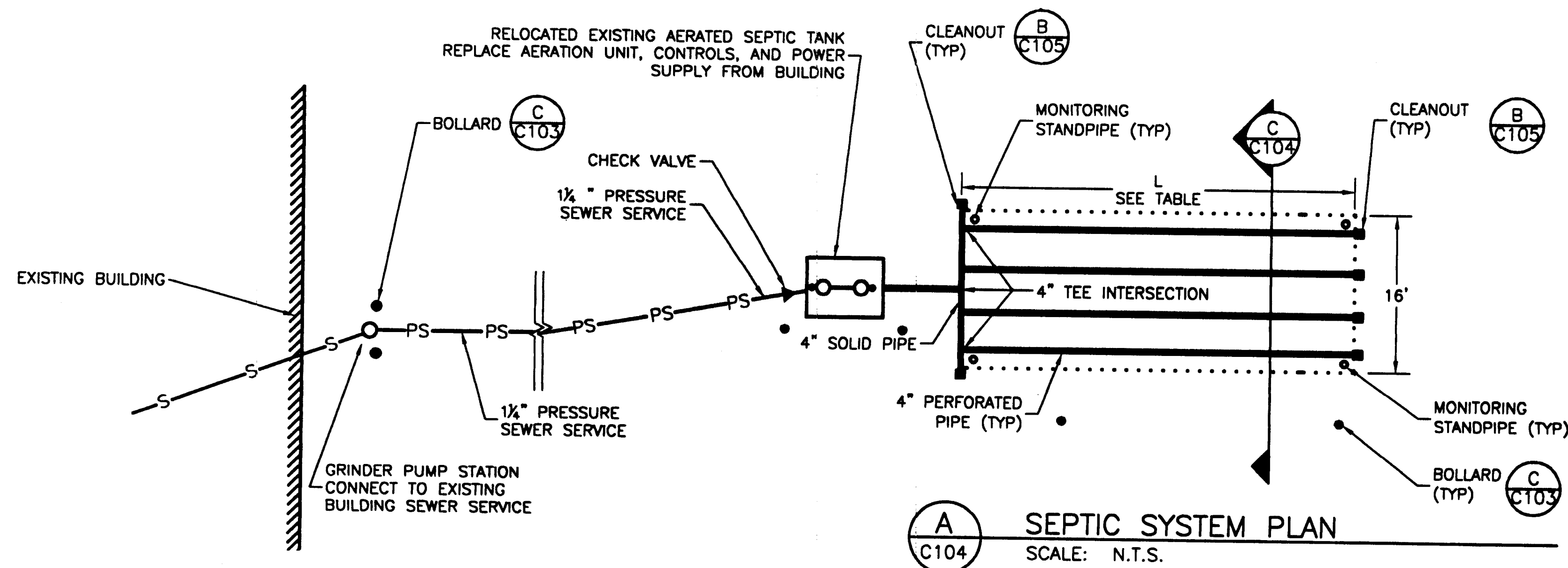
RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY:	CB	PROJECT NO. 07547 AIP 3-02-0323-0902
DRAWN BY:	KL	DATE: NOVEMBER 21, 2001
CHECKED BY:	NCZ	SHEET 16 OF 30

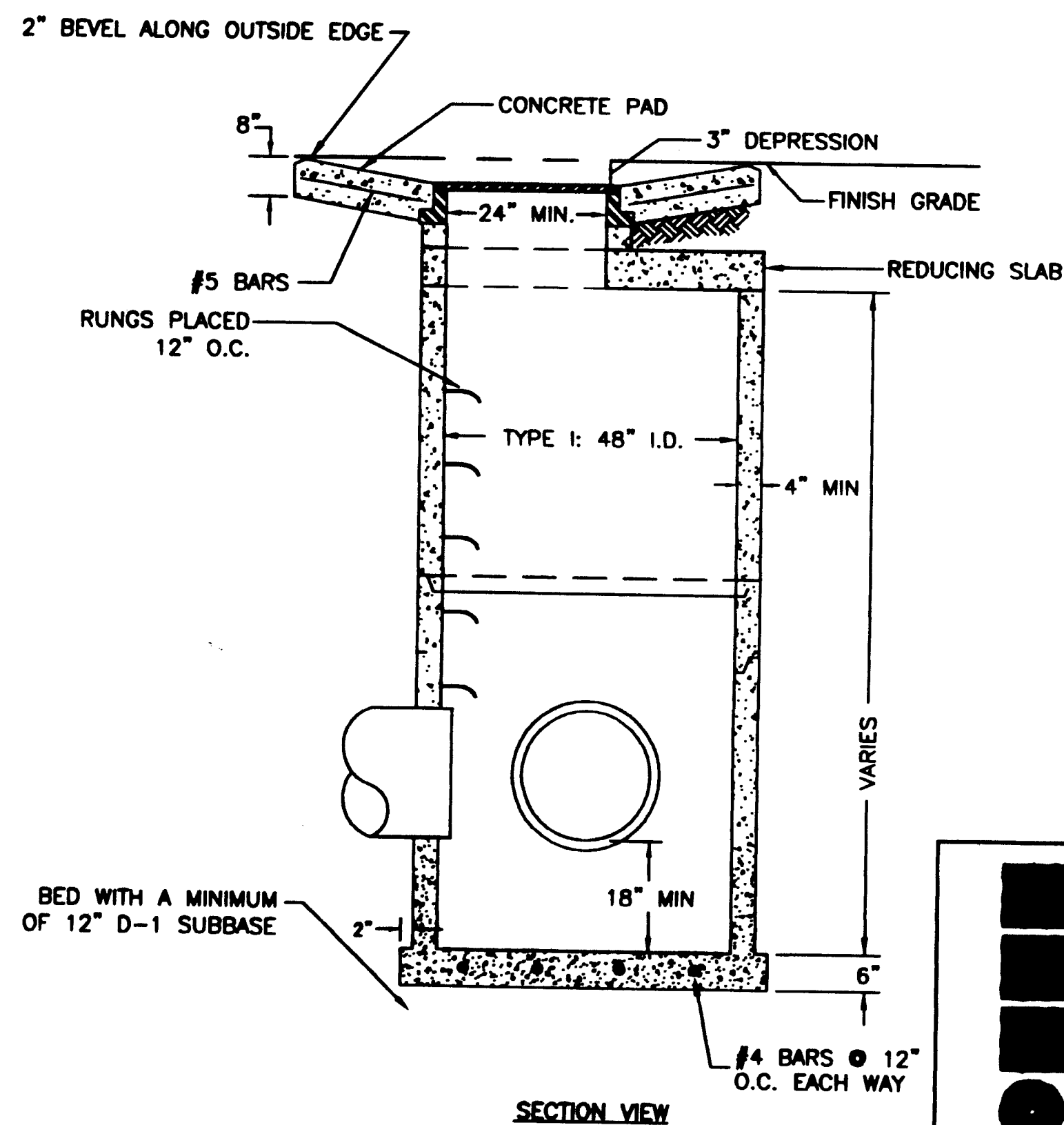
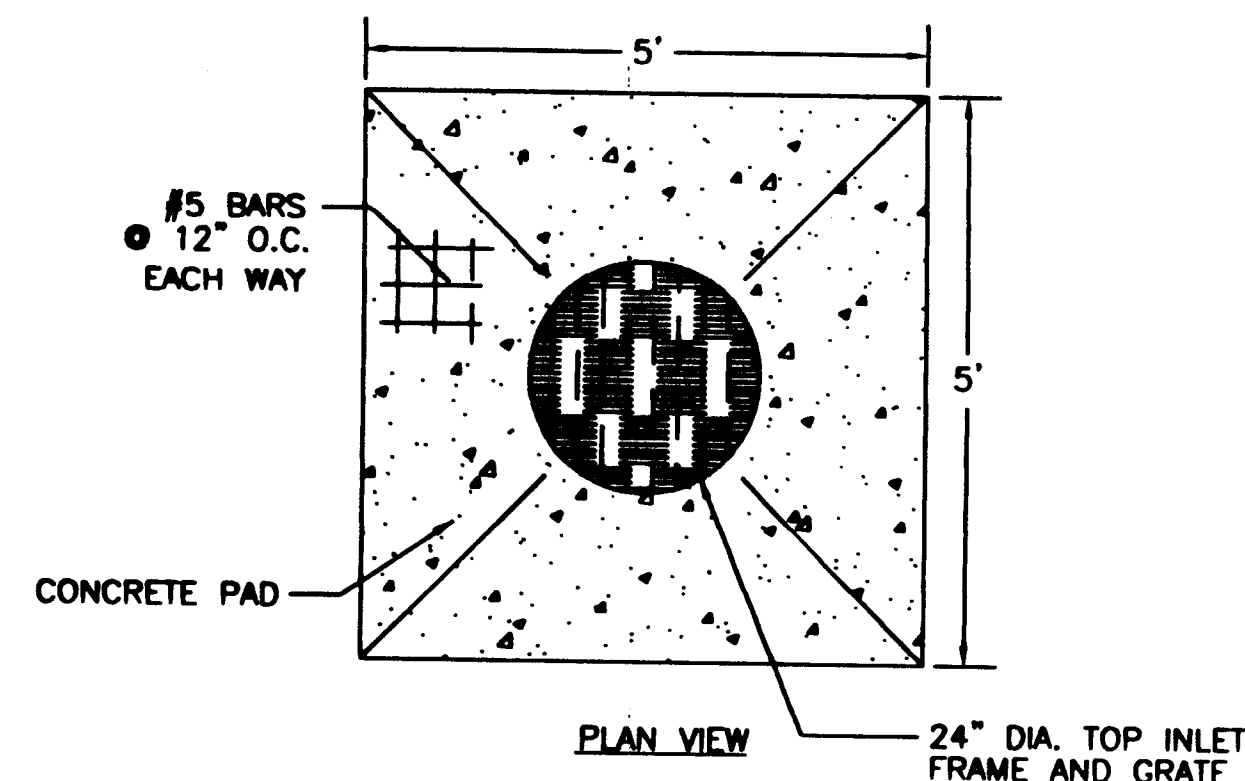
3-5-02



*PERC RATE MIN/IN	WIDTH (W) FT	LENGTH (L) FT
1-5	16	20
6-15	16	30
16-30	16	40
31-60	16	50

\*PERCOLATION TEST TO BE PERFORMED BY THE ENGINEER OF RECORD. CONTRACTOR TO COORDINATE.

NOTE:  
FOR BIDDING PURPOSES,  
CONTRACTOR TO ASSUME  
L=50' W=16'



- NOTES:**
- ENTIRE KNOCKOUT IS TO BE REMOVED AND SEALED SHUT AROUND PIPE. ALL PIPES ARE TO EXTEND MIN 1" AND MAX 2" INTO MANHOLE. GROUT INTERIOR AND EXTERIOR BETWEEN FRAME, SECTIONS, AND MANHOLE.
  - FRAME AND GRATE SHALL BE DUCTILE IRON. FRAME MAY BE CAST INTO THE TOP UNIT OR PLACED OVER THE OPENING AS APPROVED BY THE ENGINEER.
  - TOP INLET FRAME & GRATE SHALL MEET HIGHWAY STANDARD-20 LOAD REQUIREMENTS.
  - MANHOLE CONSTRUCTION SHALL CONFORM TO ASTM C-478.
  - MINIMUM SUMP DEPTH SHALL BE 18".
  - ALL JOINTS BETWEEN SECTIONS SHALL BE SEALED BY "RAM-NEK", "RUB-R-NEK", OR OTHER APPROVED GASKETING MATERIAL.

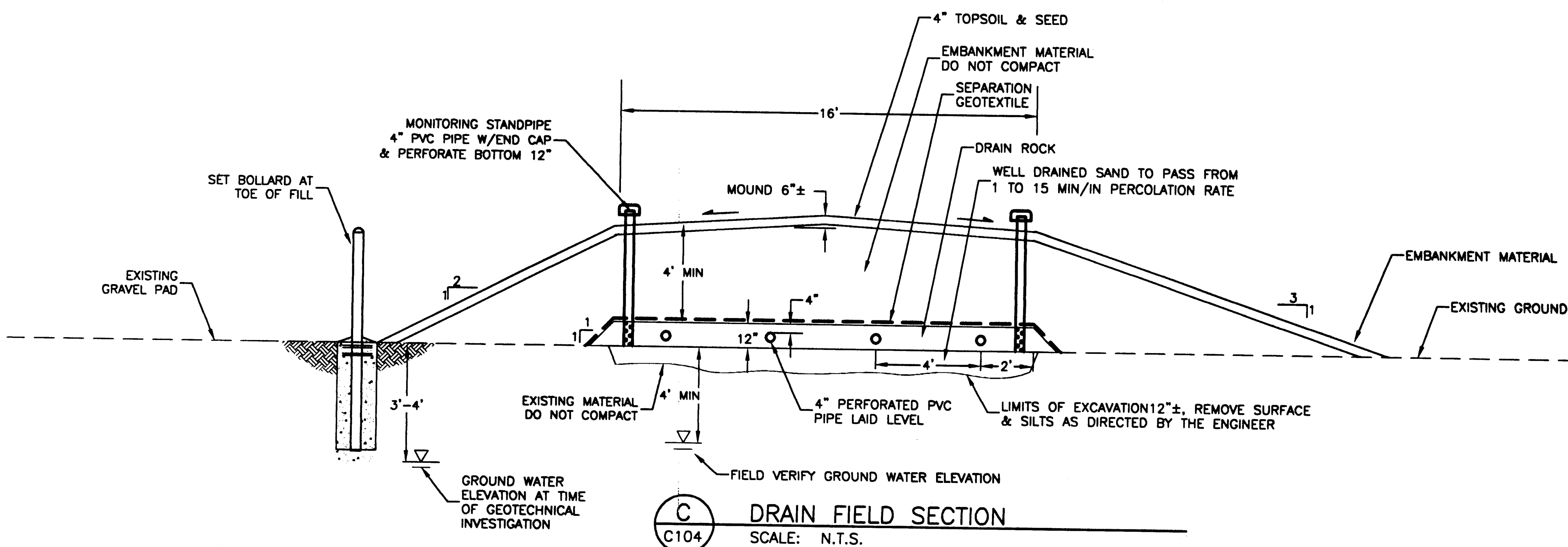
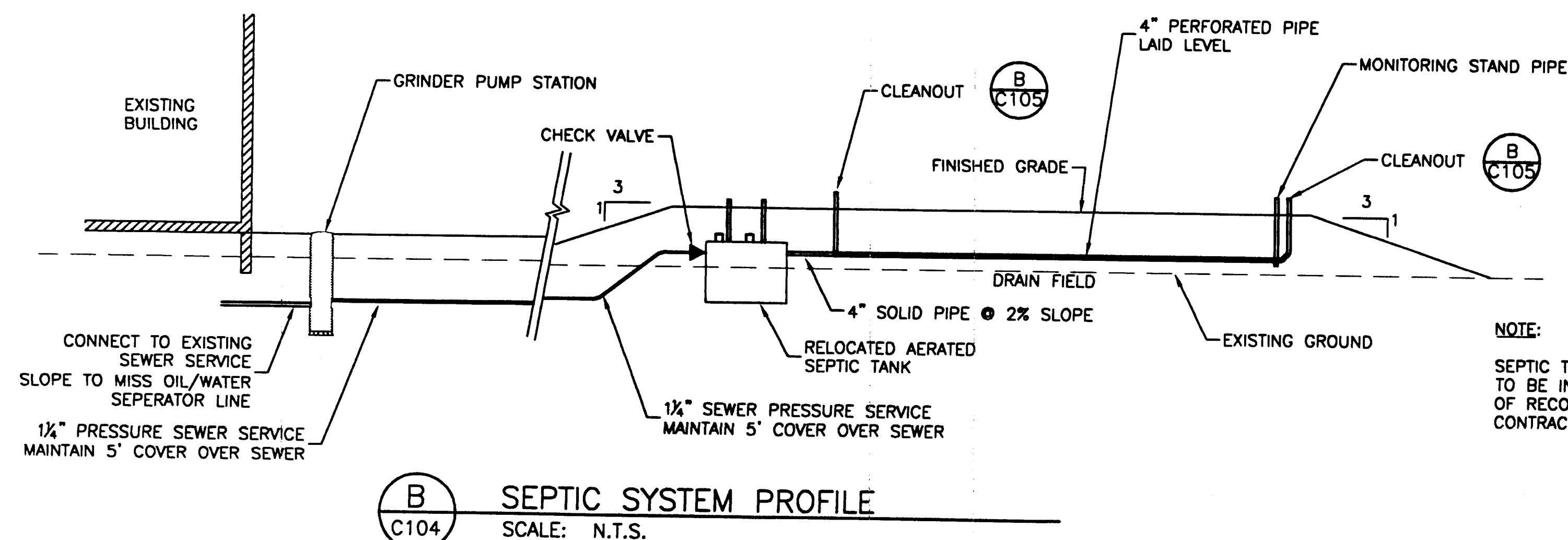
Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 6/2/03

**D STORM DRAIN MANHOLE**  
SCALE: N.T.S.

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 6/2/03



PATH:	DATE:	DESCRIPTION OF CHANGE:

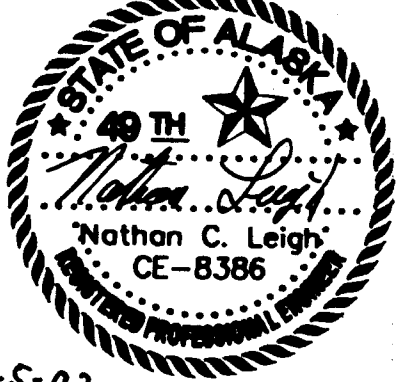
**RECORD OF REVISIONS**

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY: *CB*  
DRAWN BY: *WMB*  
CHECKED BY: *NCL*

**C104**  
PROJECT NO. 07547  
AIP 3-02-0323-0902  
DATE:  
NOVEMBER 21, 2001  
SHEET 17 OF 30

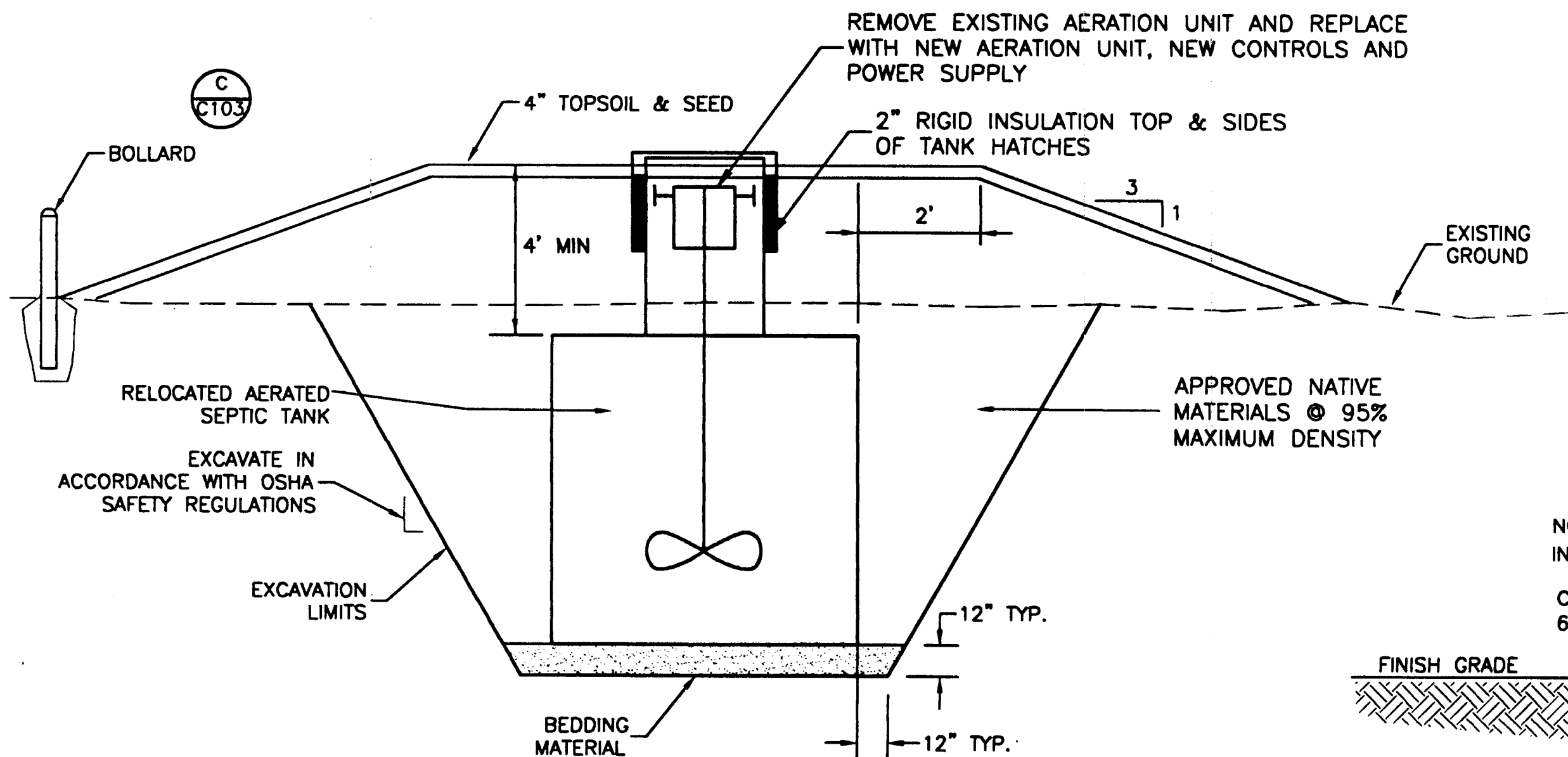


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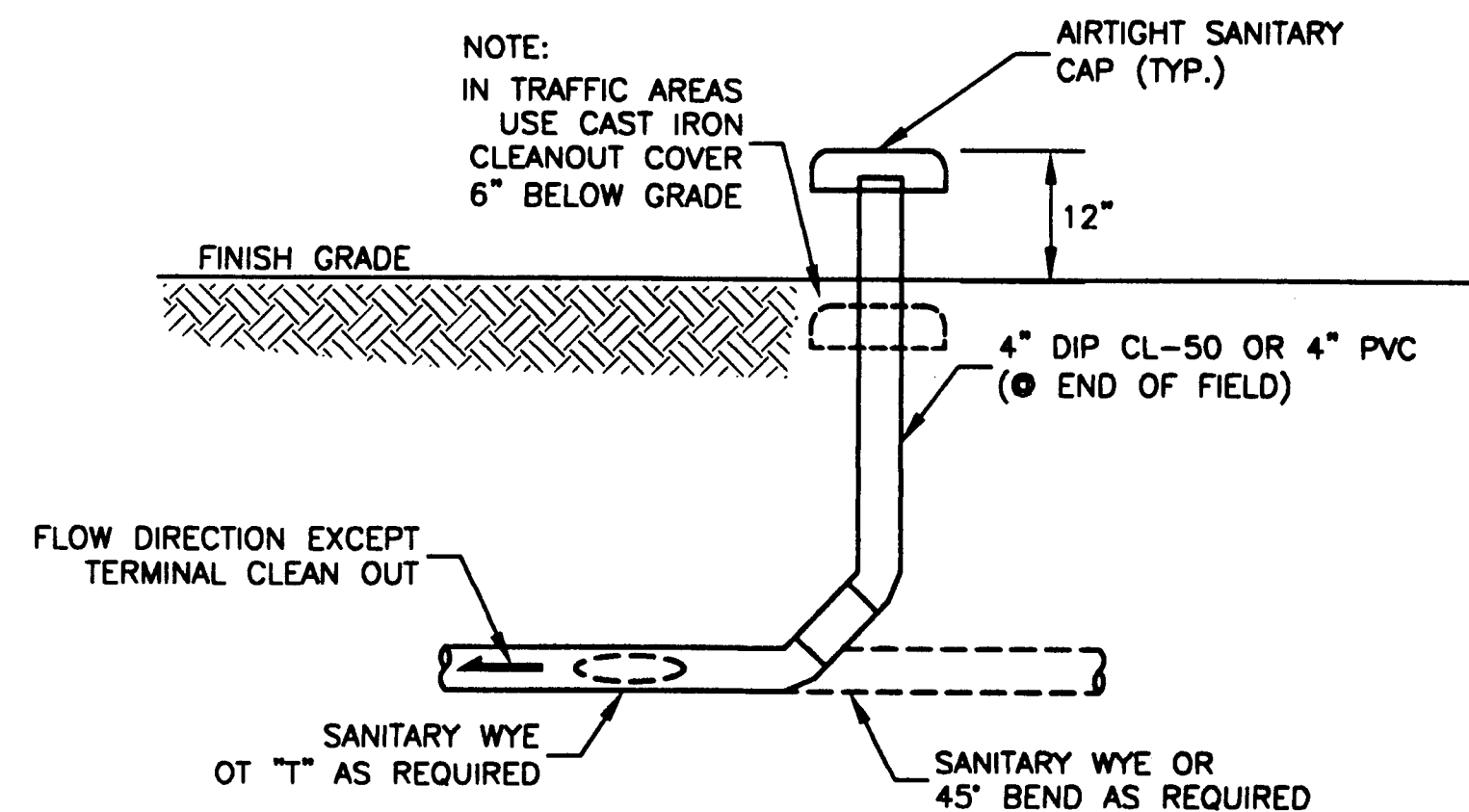
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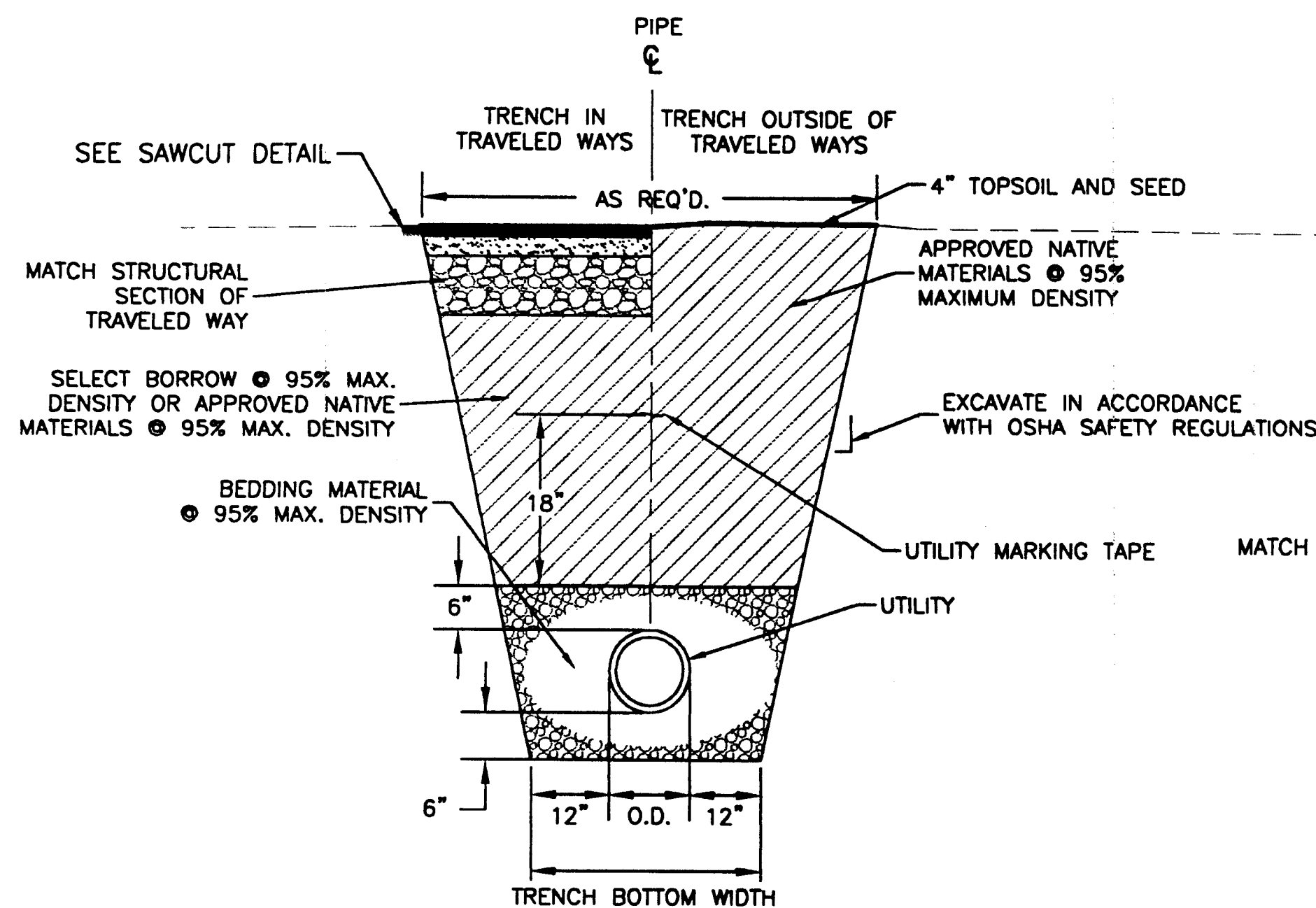




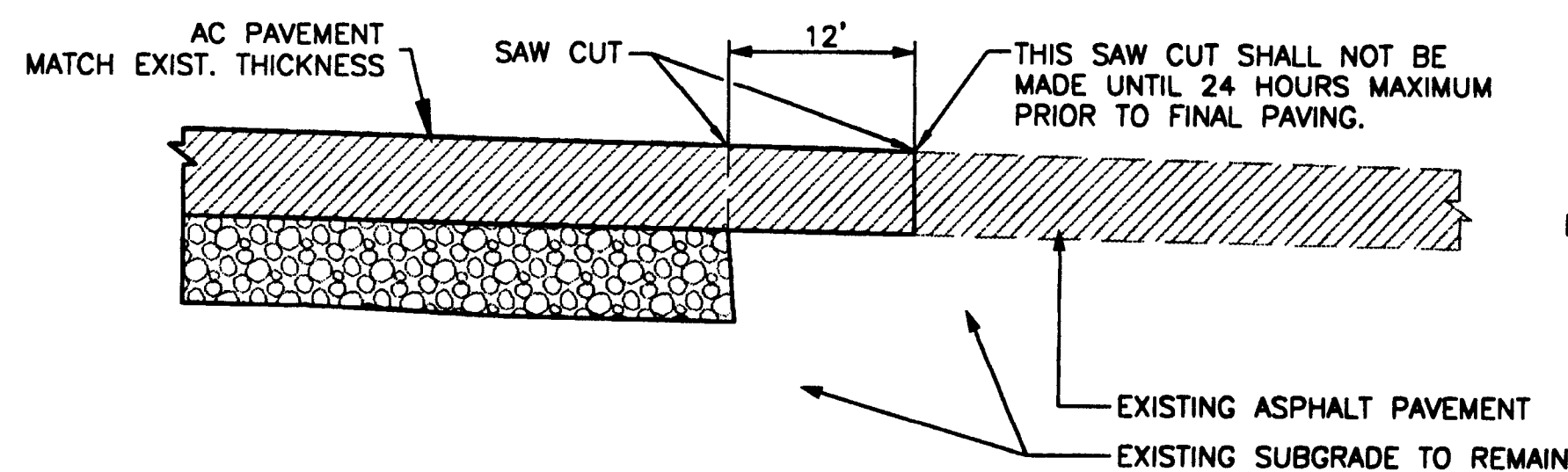
**A**  
C105  
**AERATED SEPTIC TANK DETAIL**  
SCALE: N.T.S.



**B**  
C105  
**CLEAN OUT**  
SCALE: N.T.S.

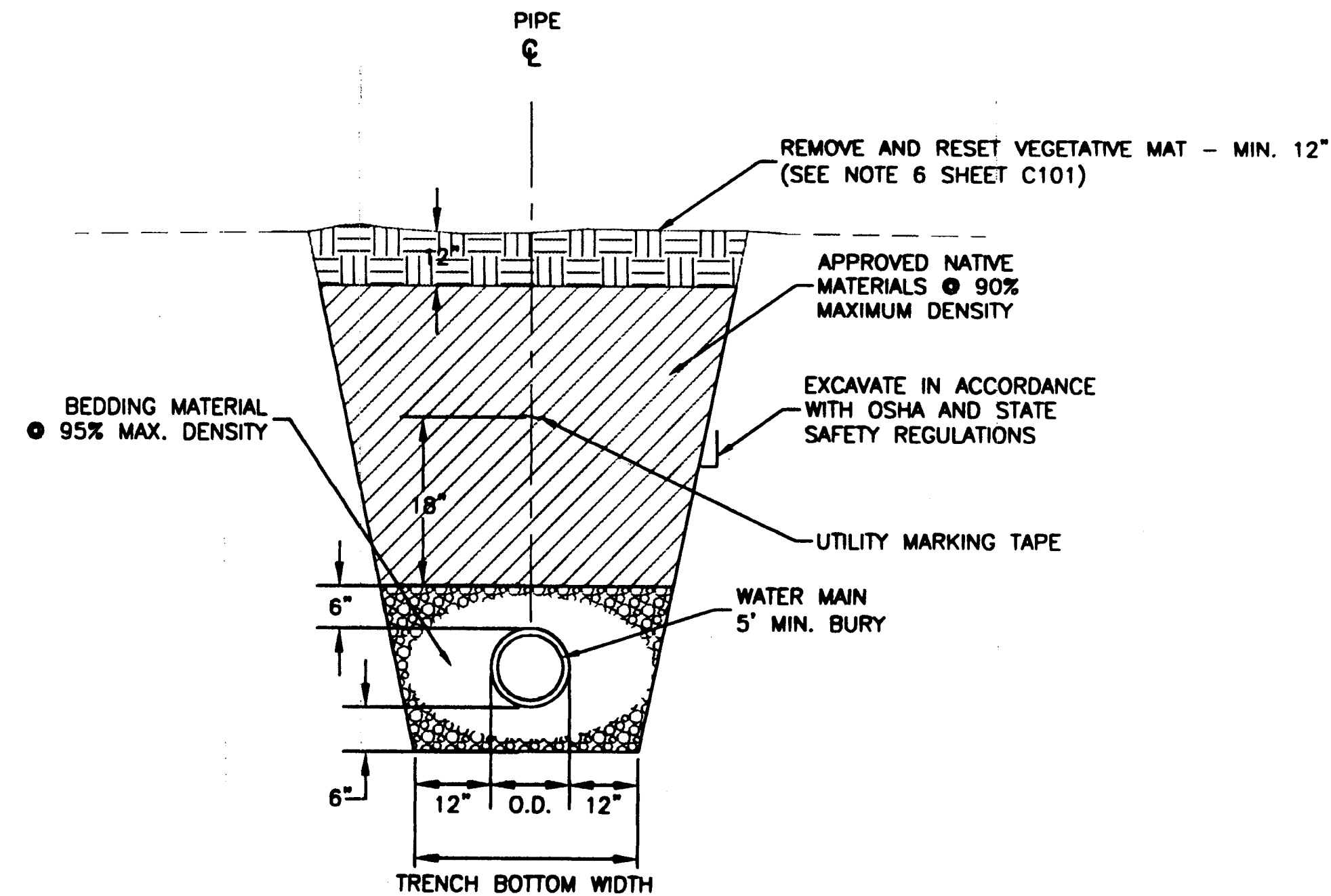


**D**  
C105  
**TYPICAL TRENCH DETAIL**  
SCALE: N.T.S.  
NOTE: STRUCTURAL CONCRETE MAY BE SUBSTITUTED FOR ASPHALT PAVEMENT IF AN ASPHALT PLANT IS NOT STATIONED IN WRANGELL AT THE TIME OF THIS PROJECT

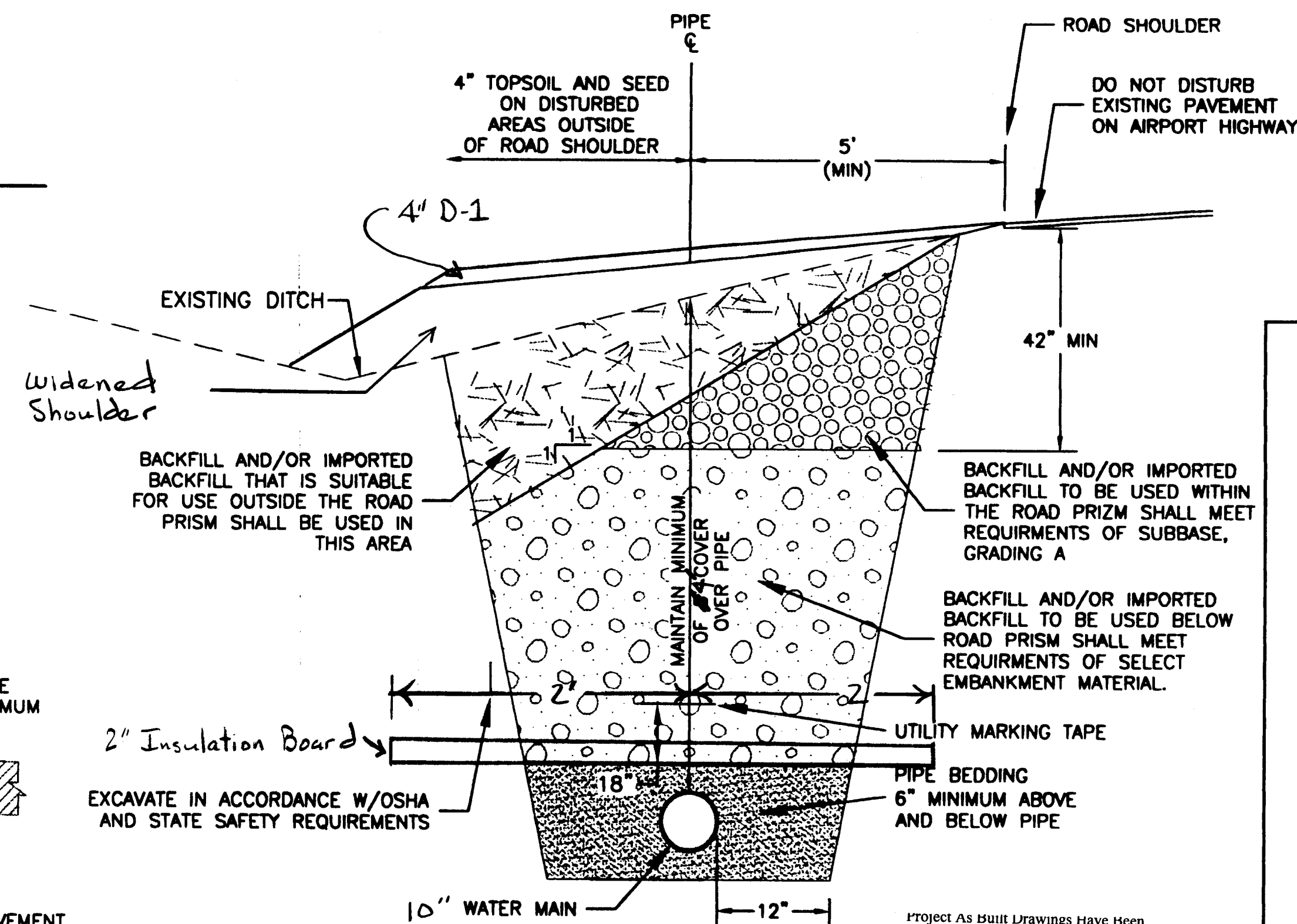


**F**  
C105  
**SAW CUT DETAIL**  
NTS

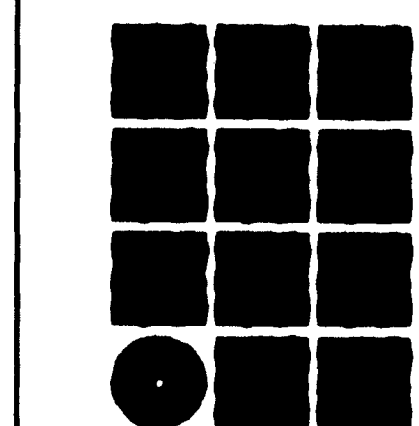
NOTE: GEOTECHNICAL REPORTS INDICATE THAT ROCK EXCAVATION WILL BE REQUIRED TO INSTALL THE WATER MAIN. FOR BIDDING PURPOSES THE CONTRACTOR SHALL ASSUME 400 CUBIC YARDS OF ROCK EXCAVATION WILL BE REQUIRED.



**C**  
C105  
**MUSKEG WETLAND TRENCH**  
SCALE: N.T.S.



**E**  
C105  
**TRENCH SECTION ALONG HIGHWAY**  
SCALE: N.T.S.

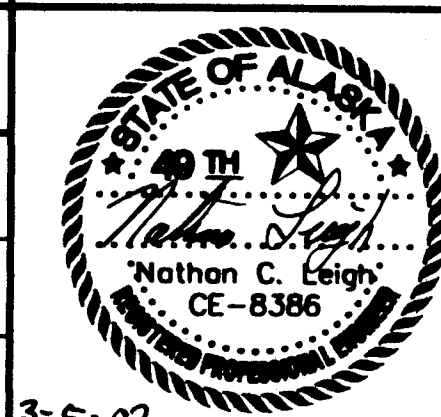


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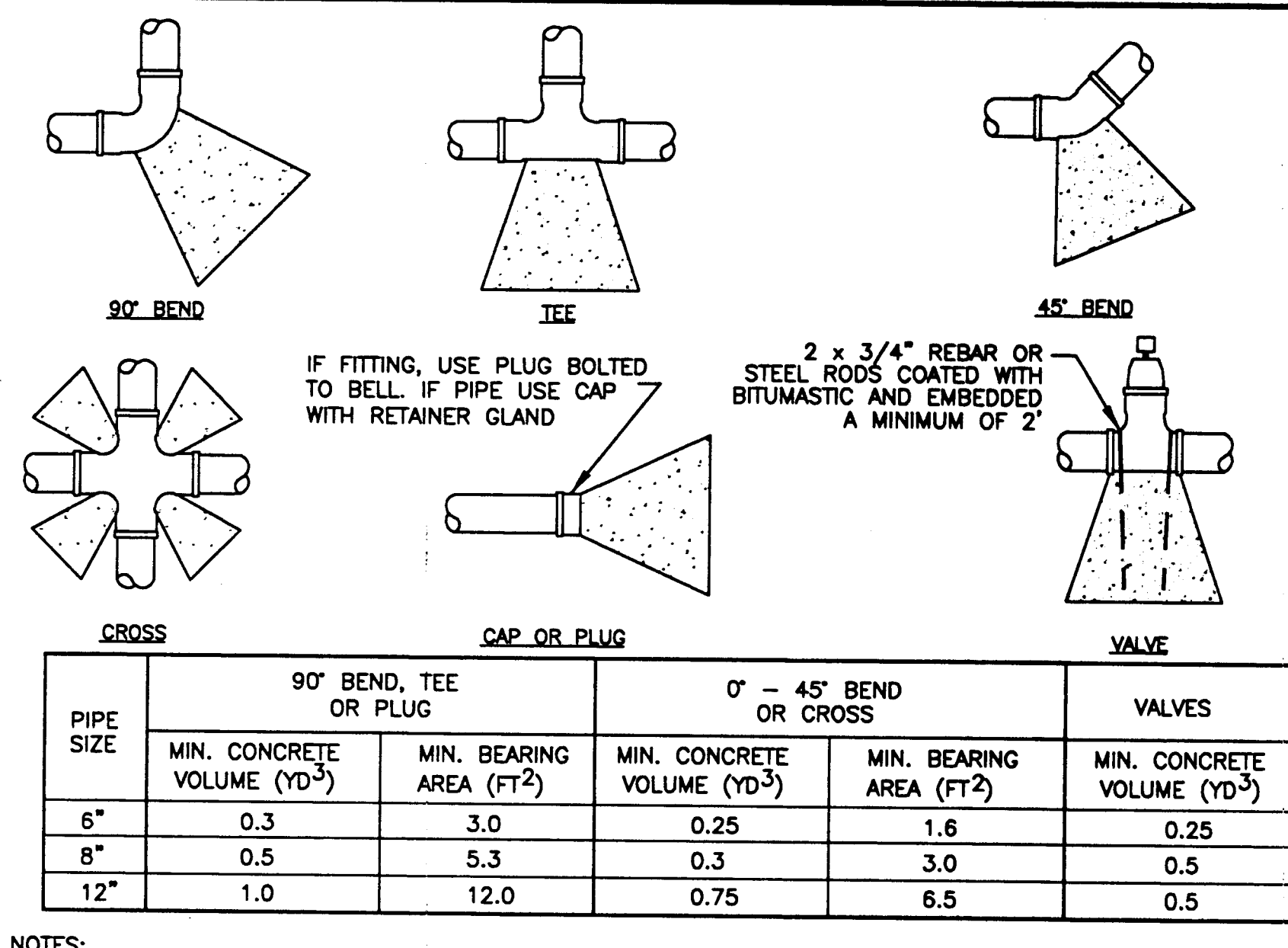
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY: CB  
DRAWN BY: CB  
CHECKED BY: NCZ

C105  
PROJECT NO. 07047  
AIP 3-02-0323-0002  
DATE:  
NOVEMBER 21, 2001  
SHEET 10 OF 30

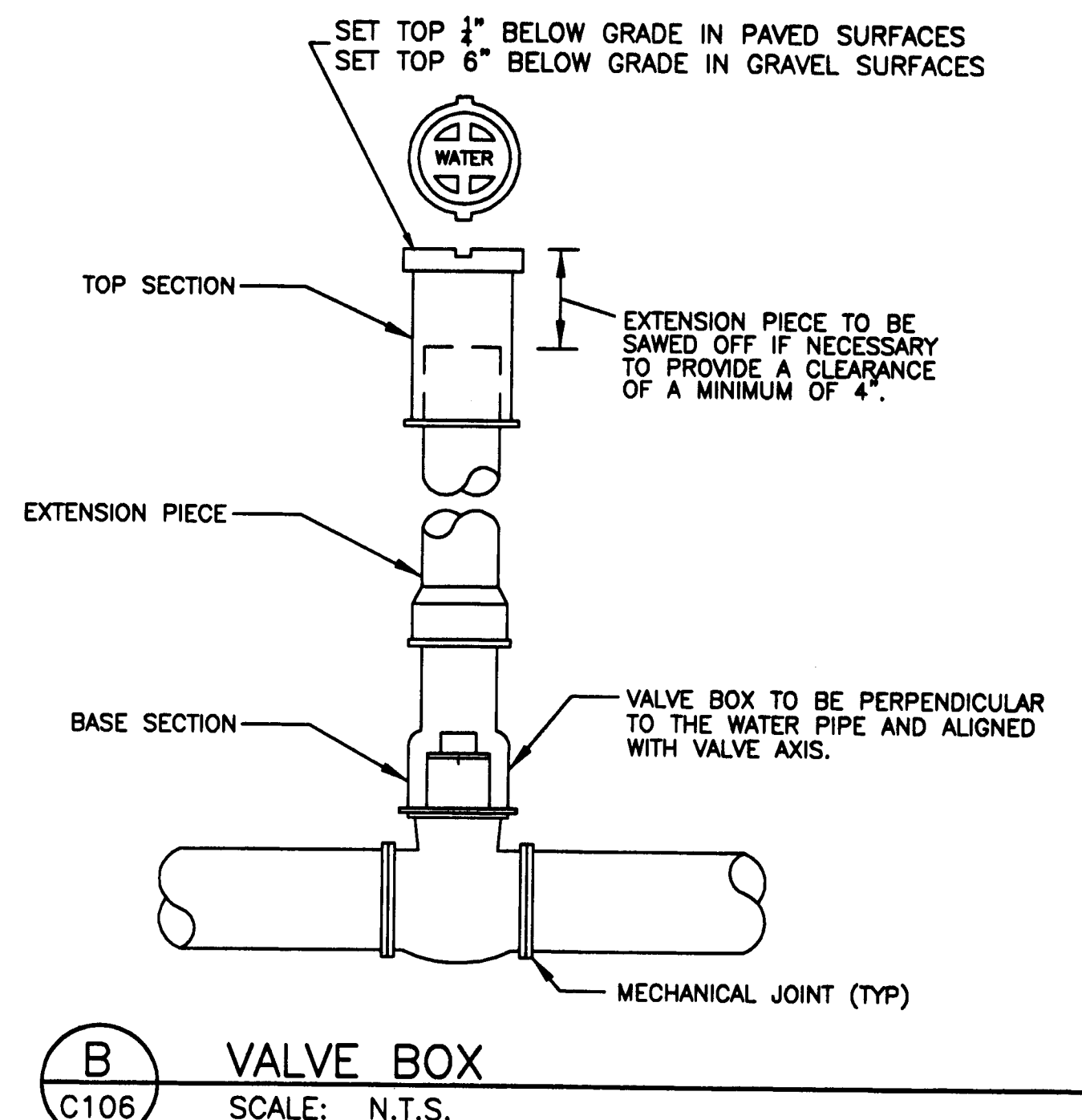
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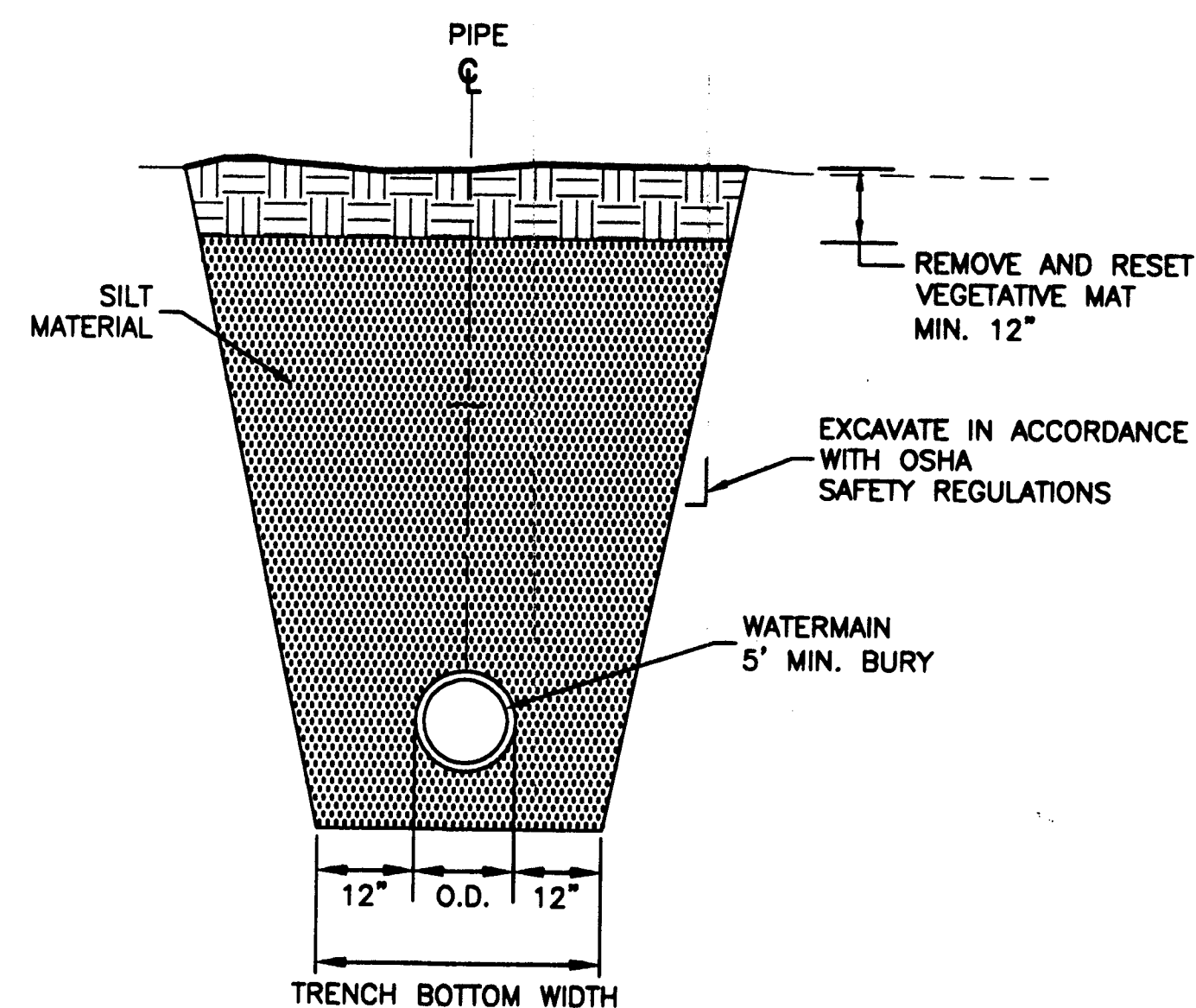
NOTES:

1. CENTER OF MASS OF THRUST BLOCK MUST LAY OPPOSITE TO AND ALIGNED AGAINST THE DIRECTION OF THRUST.
2. THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS REMAIN ACCESSIBLE.
3. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH. UNSTABLE OR UNSUITABLE MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED AS DETERMINED BY THE ENGINEER.
4. VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONCRETE THRUST BLOCKS ARE BASED ON 150 P.S.I. WATER PRESSURE AND SOIL BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO THE ENGINEER'S REVIEW AND APPROVAL.

**A** HORIZONTAL THRUST BLOCKS  
C106 SCALE: N.T.S.

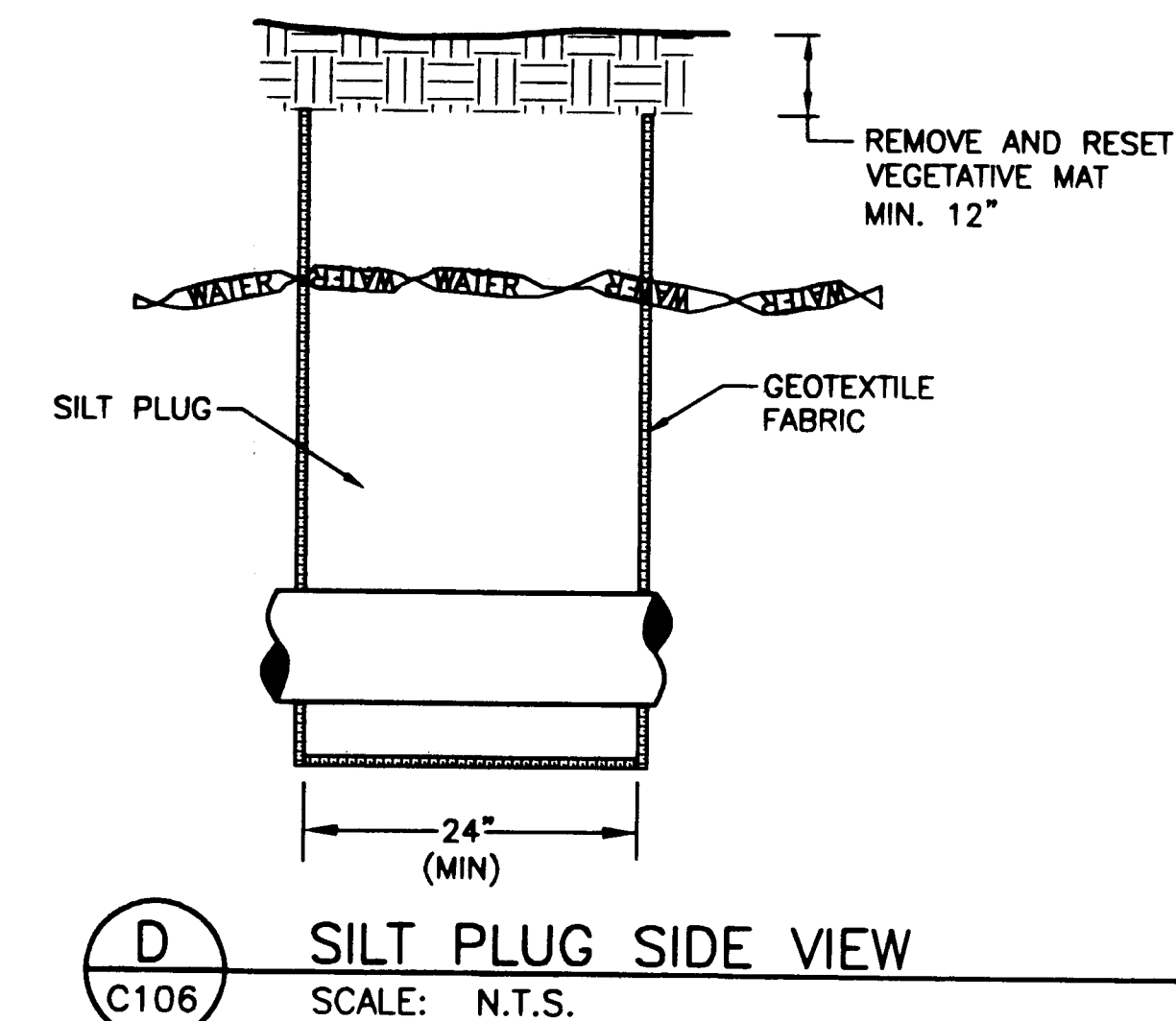


**B** VALVE BOX  
C106 SCALE: N.T.S.

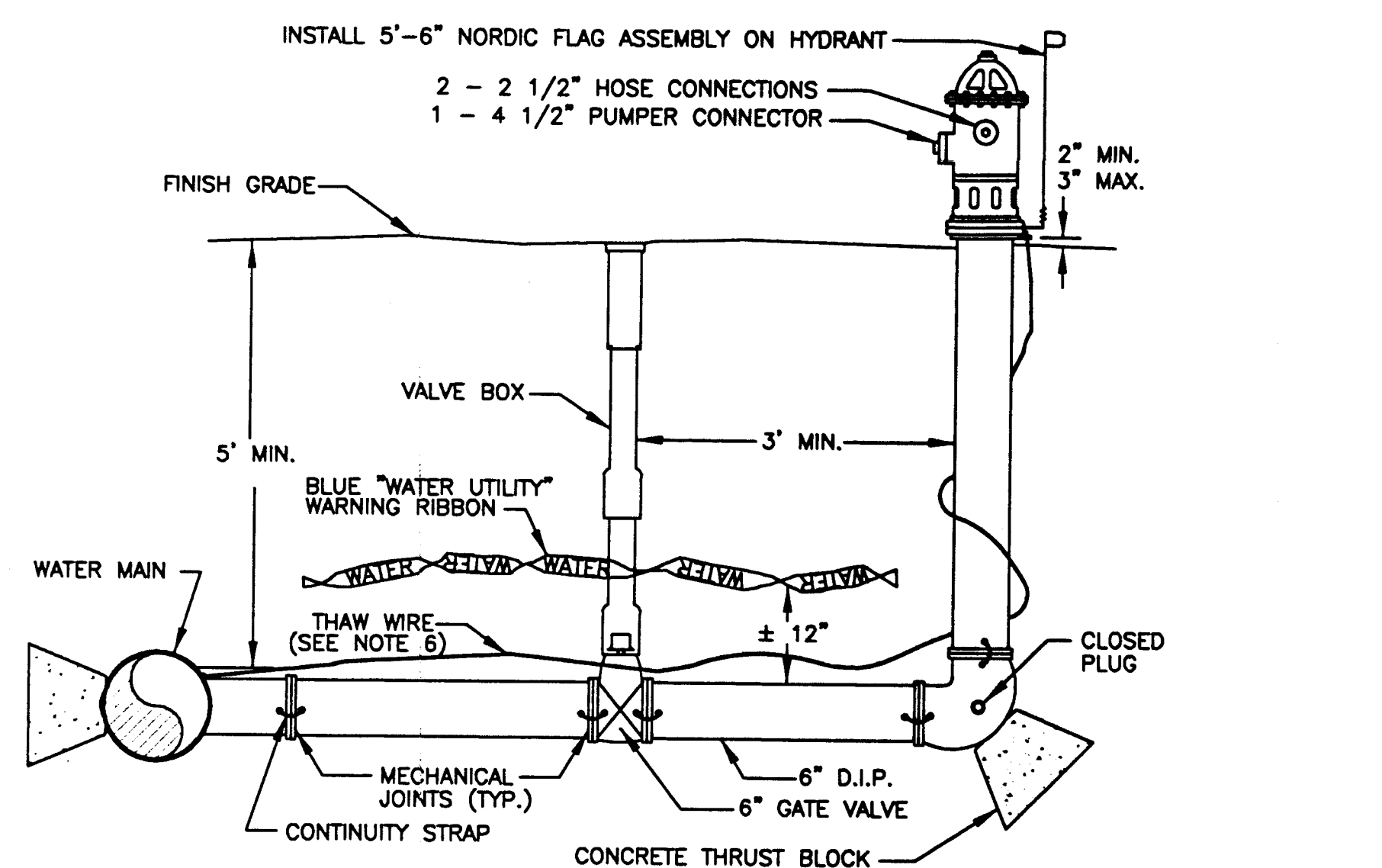


**SILT PLUG**

NOTE: SILT PLUG TO BE PLACED NEAR  
DOWN HILLSIDE END OF WETLANDS  
AREA



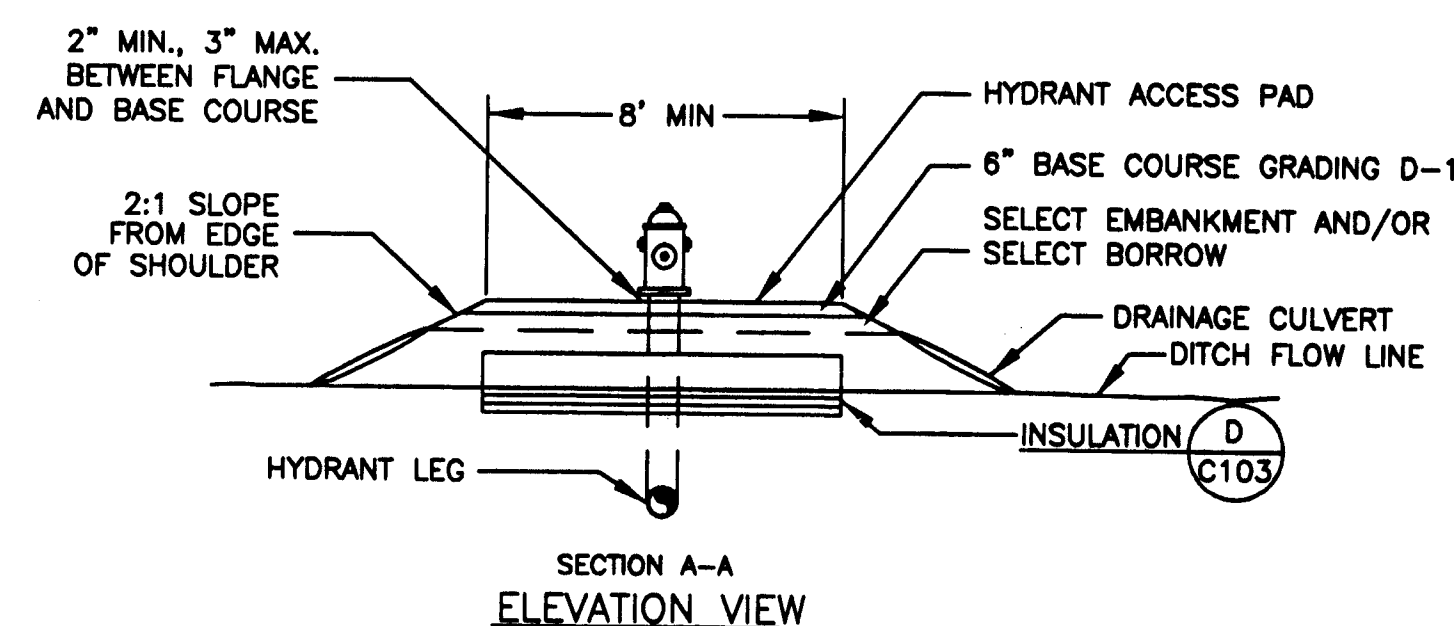
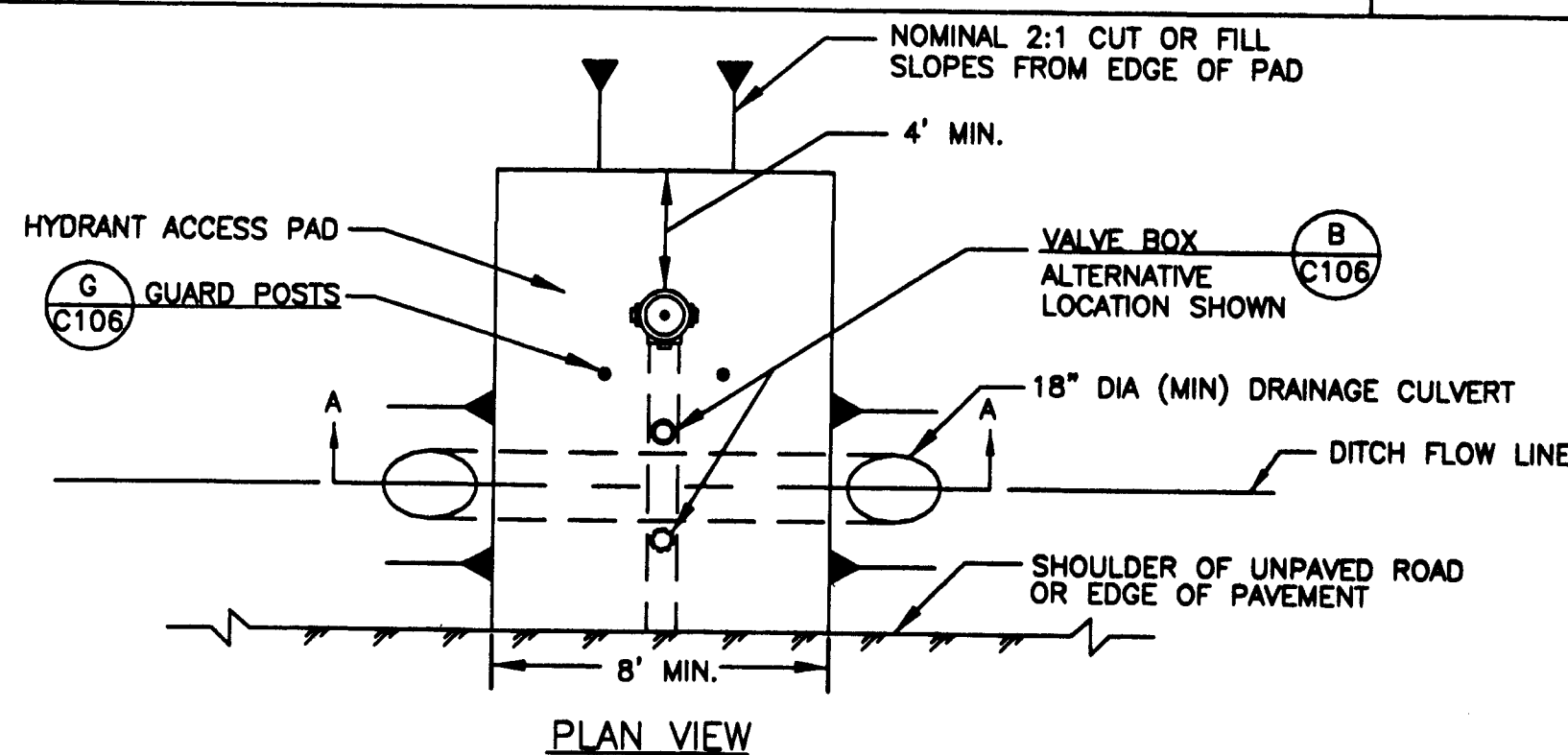
(D) SILT PLUG SIDE VIEW  
C106 SCALE: N.T.S.



NOTES

1. HYDRANT BARREL SHALL BE PLUMB.
2. WATER PIPE SHALL BE 6" D.I.P. CONNECTIONS SHALL BE RESTRAINED MECHANICAL JOINTS OR MEGALUGS.
3. GROUND COVER SHALL BE 5' MINIMUM.
4. BENDS BETWEEN THE HYDRANT AND THE MAIN SHALL NOT EXCEED 11 1/4'.
5. ALL HYDRANTS SHALL BE PAINTED "CATERPILLER YELLOW". ALL HYDRANTS WITH PLUGGED DRAINS SHALL HAVE THE TOP BONNET PAINTED OSHA SAFETY BLUE. NUMBER OF FEET TO VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW TOP BONNET.
6. THAW WIRE AND CONTINUITY STRAPS SHALL BE #2 COPPER WITH TYPE THHW INSULATION. THAW WIRE SHALL BE CADWELDED TO THE MAIN. EACH JOINT SHALL HAVE TWO CADWELDED CONTINUITY STRAPS ACROSS OPPOSITE SIDES OF THE PIPE.

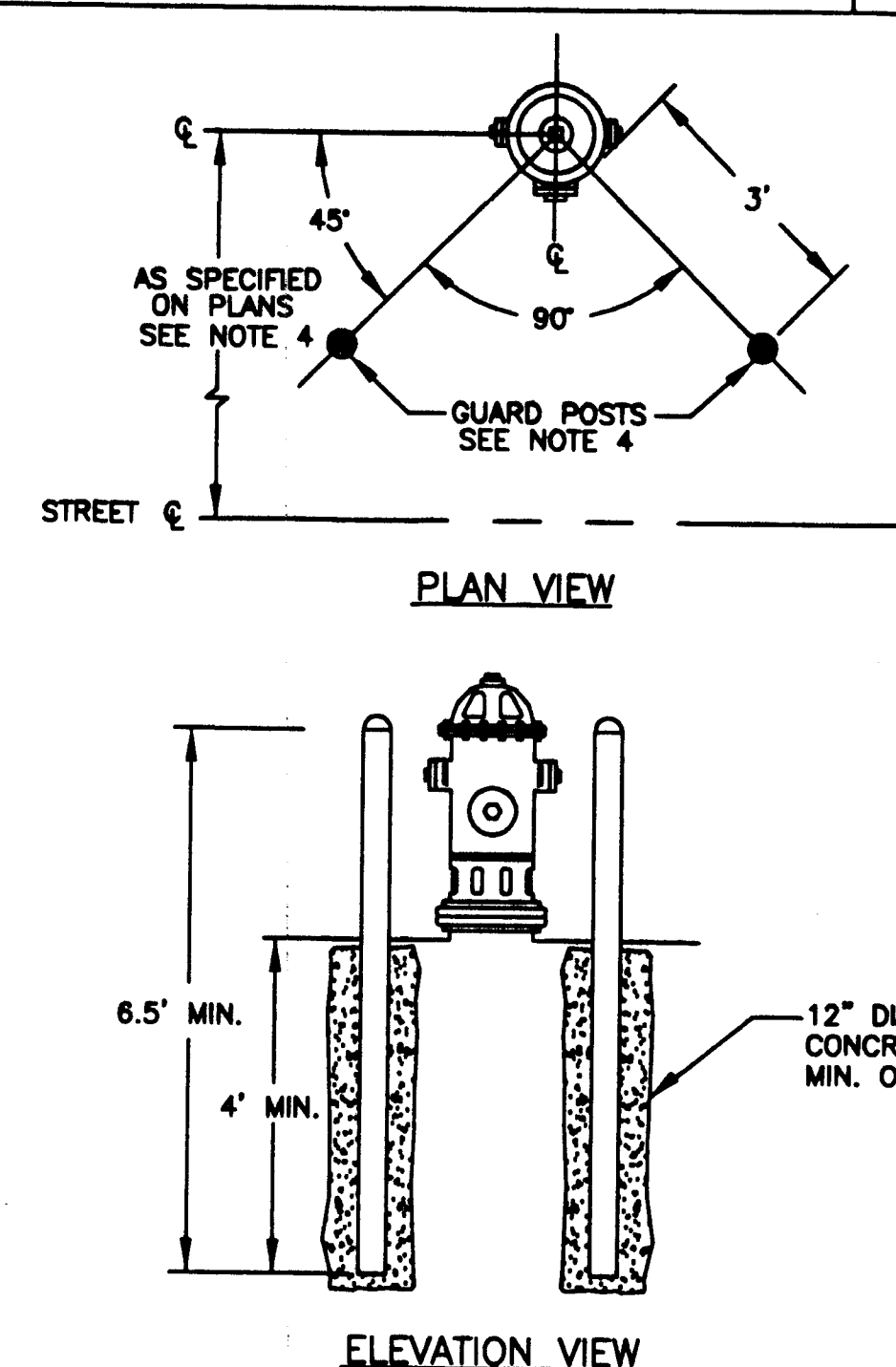
**E** FIRE HYDRANT  
C106 SCALE: N.T.S.



NOTES:

1. WHEN DITCH IS LESS THAN 18" DEEP, USE OPEN DITCH IN LIEU OF CULVERT
2. FROM EDGE OF ROAD TO DITCH LINE, SLOPE SURFACE OF HYDRANT PAD TO MATCH EXTENSION OF ROADWAY CROWN.
3. TOPSOIL AND SEED SIDE SLOPES.

**F** FIRE HYDRANT ACCESS PAD  
C106 SCALE: N.T.S.




**NOTES:**

1. GUARD POSTS SHALL BE 4" DIAMETER, SCHEDULE 40 STEEL PIPE.
2. POSTS SHALL BE FILLED FLUSH WITH CONCRETE AND PAINTED WITH OSHA YELLOW ENAMEL AFTER INSTALLATION.
3. POSTS SHALL NOT BLOCK OPERATION OF VALVE.
4. GUARD POSTS SHALL NOT BE INSTALLED WHEN THE FIRE HYDRANT IS LESS THAN 32' FROM THE ROAD CENTERLINE.

**FIRE HYDRANT GUARD POSTS**  
SCALE: N.T.S.

Project As Built Drawings Have Been  
Reviewed By The Project Engineer &  
Represent, To The Best Of My Knowledge,  
The Project As Constructed.

Proj. Eng. CHZ Date 6/9/0

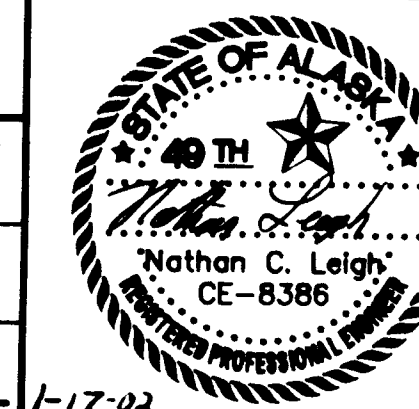


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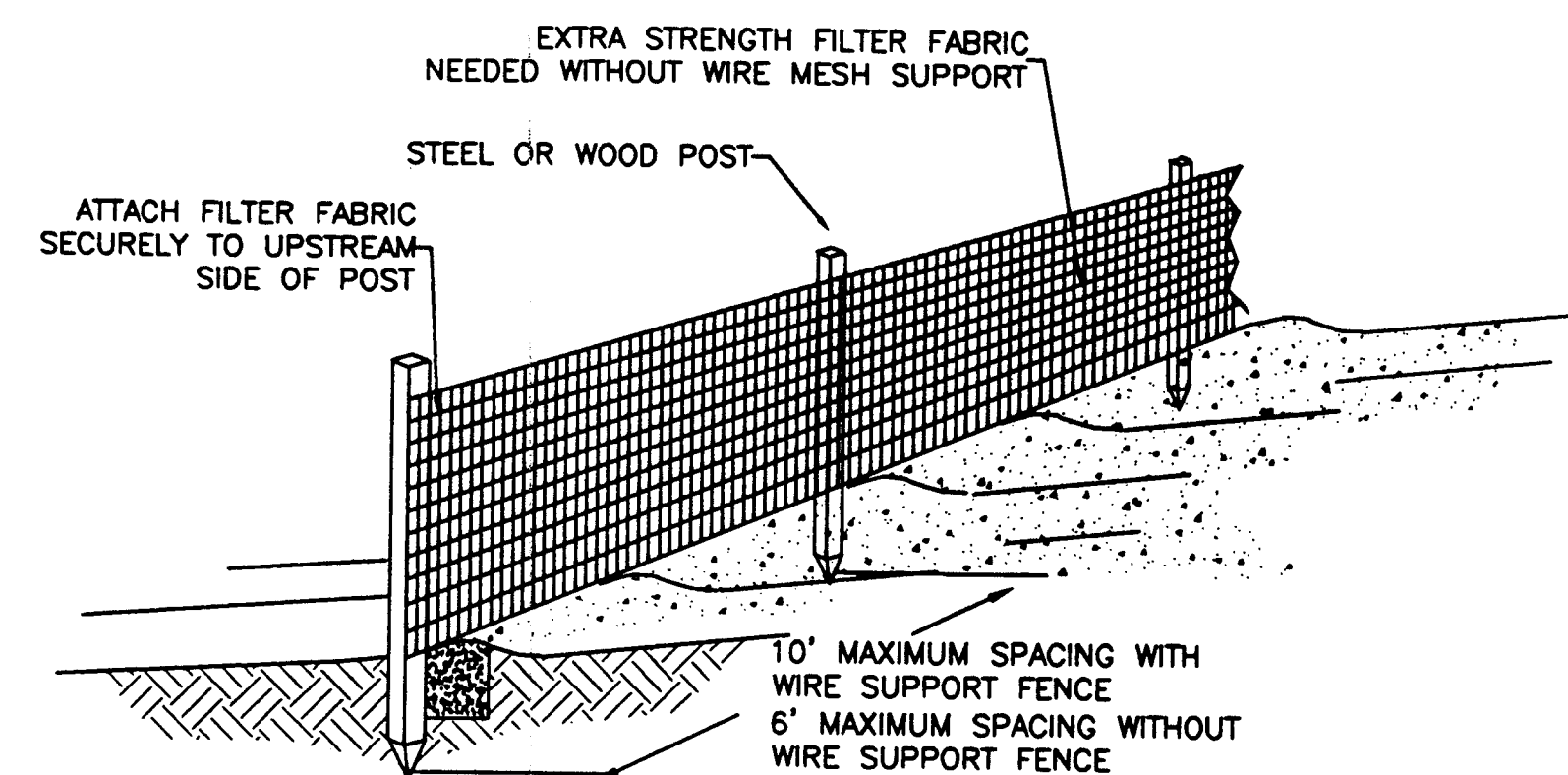
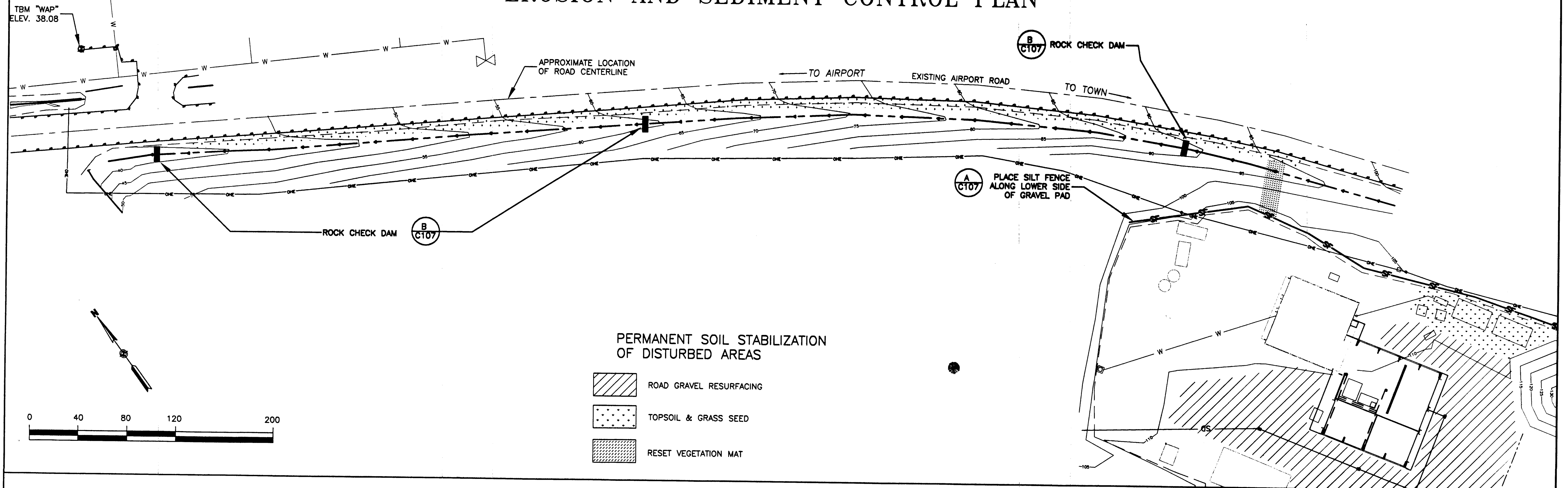
**WRANGELL AIRPORT**  
**SAND & CHEMICAL STORAGE BUILDING ADDITION**

DESIGNED BY:	CB	PROJECT NO. 67647 AIP 3-02-0323-0002
DRAWN BY:	CB	DATE: NOVEMBER 21, 2001
CHECKED BY:	NCL	SHEET 19 OF 30

-1-17-0.



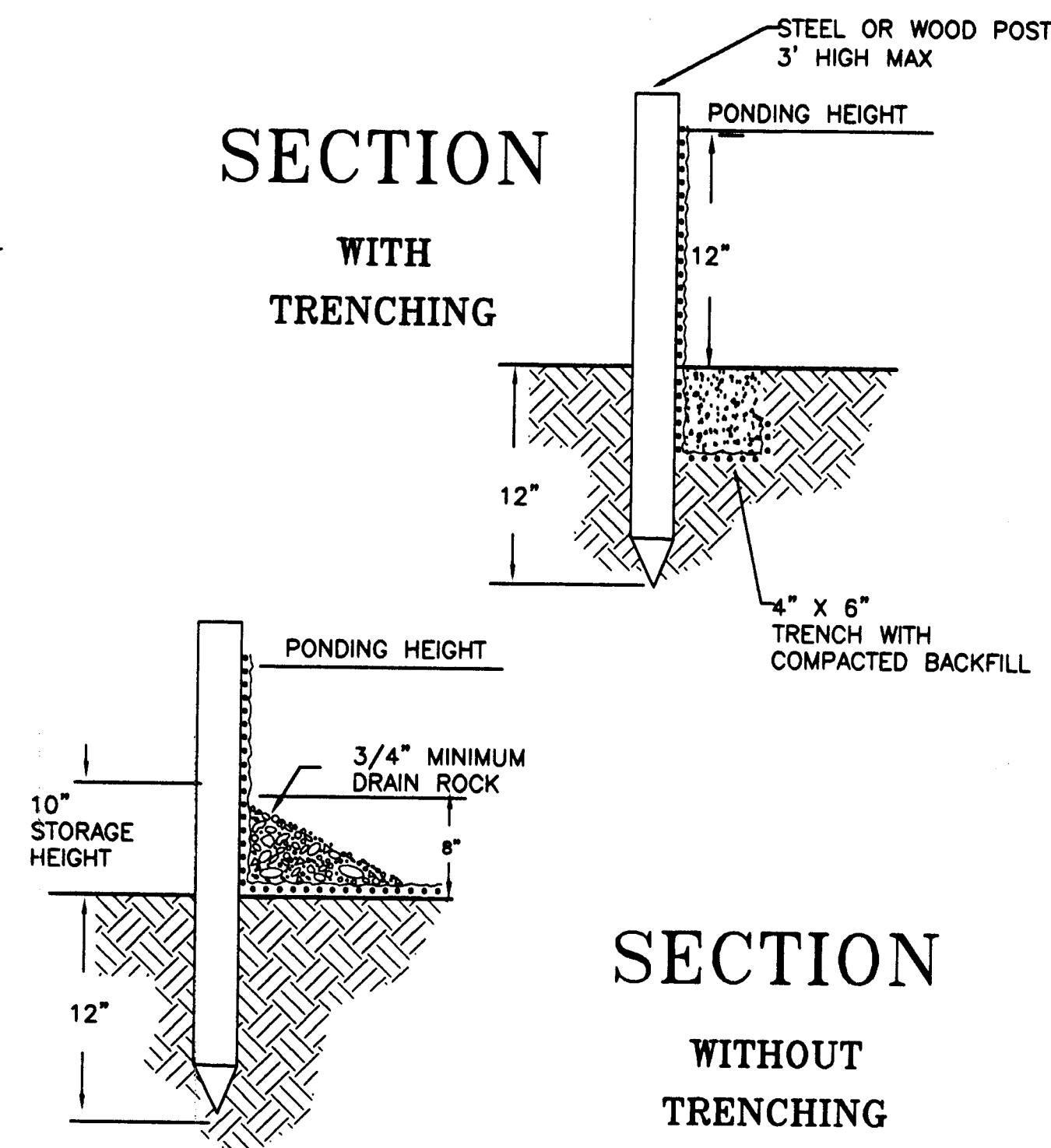
# EROSION AND SEDIMENT CONTROL PLAN



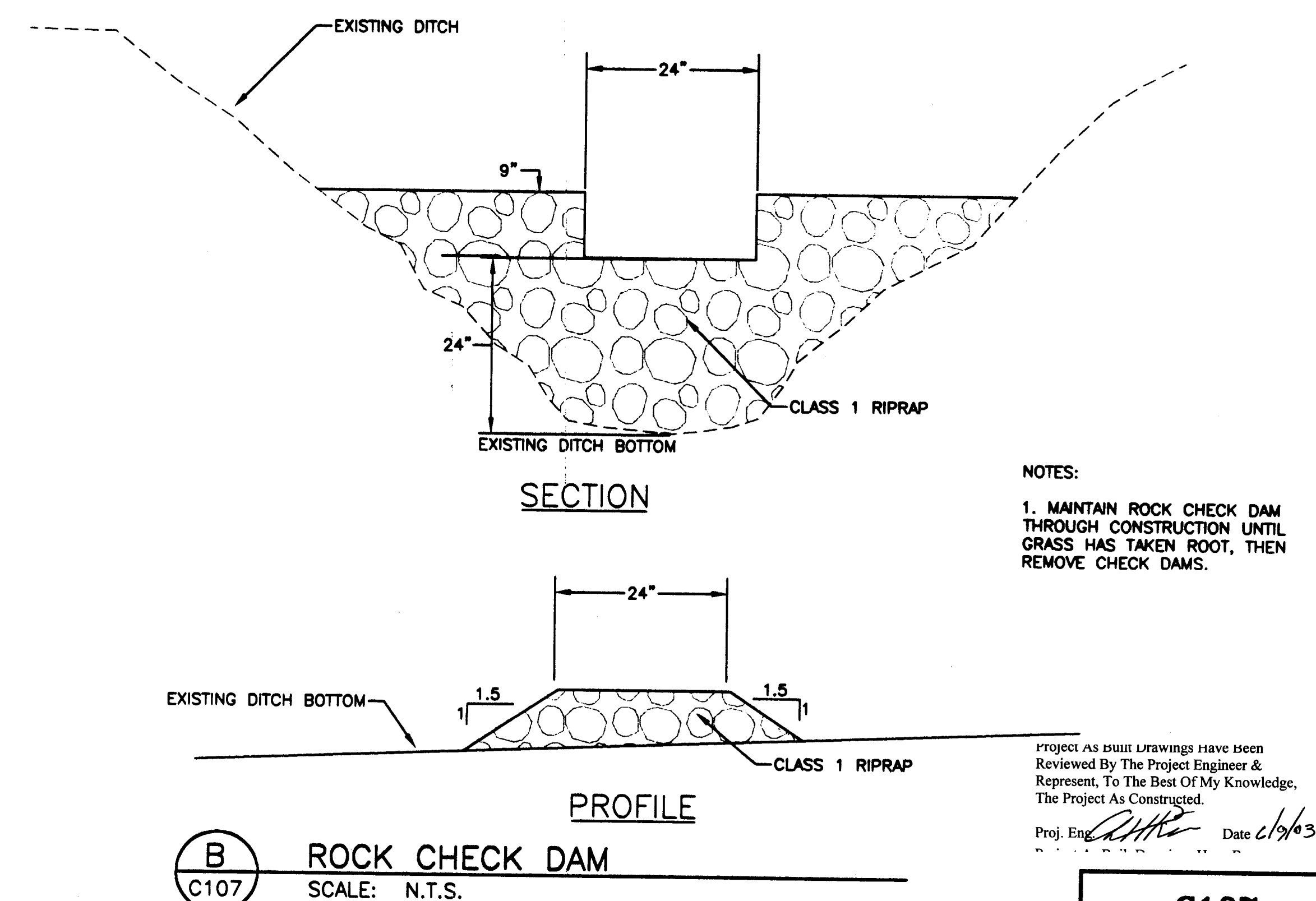
## NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 10" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**A**  
C107 SILT FENCE DETAILS  
SCALE: N.T.S.



**B**  
C107 ROCK CHECK DAM  
SCALE: N.T.S.

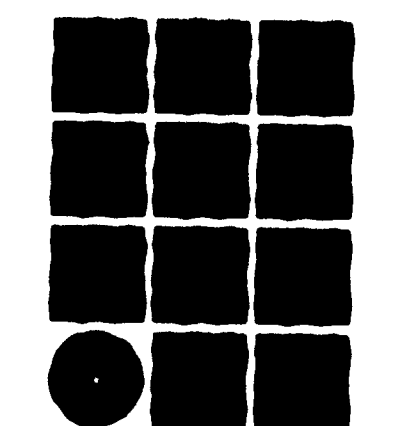


## NOTES:

1. MAINTAIN ROCK CHECK DAM THROUGH CONSTRUCTION UNTIL GRASS HAS TAKEN ROOT, THEN REMOVE CHECK DAMS.

Project As Shown Drawings have been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 1/10/03

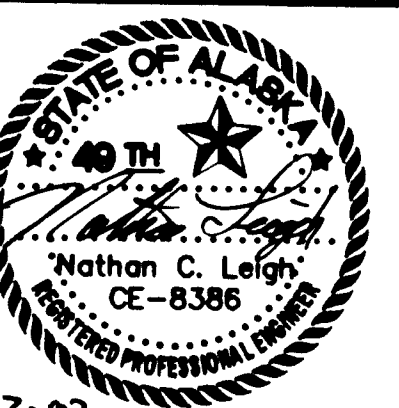


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PATH:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY: *CB*  
DRAWN BY: *KL*  
CHECKED BY: *NCL*

**C107**  
PROJECT NO. 67547  
AIP 9-08-0323-0008  
DATE:  
NOVEMBER 21, 2001  
SHEET 20 OF 30

1-17-02

## STRUCTURAL ABBREVIATIONS

ANCHOR BOLT AND ANGLE ARCHITECTURAL AT	A.B. & L ARCH ⊙	LONG LEG HORIZONTAL LONG LEG VERTICAL LONG SLOTTED HOLE LONG SPAN	LLH LLV LSH LH
BASE PLATE	B.P.	MANUFACTURER MAXIMUM MECHANICAL MINIMUM	MFR MAX MECH MIN
BEARING BOTTOM	BRG BOT	NEAR FACE NEAR SIDE NOT TO SCALE NUMBER	N.F. N.S. N.T.S. N OR #
CANTILEVER CAST-IN-PLACE CENTER LINE CHANNEL CLEAR CONCRETE CONCRETE MASONRY UNIT CONNECTION CONSTRUCTION CONTINUOUS CONSTRUCTION JOINT CROSS	CANT C.I.P. CL OR C C CLR CONC C.M.U. CONN CONST CONT C.J. X-	ON CENTER OPENING OPPOSITE OPPOSITE HAND  PARALLAM STRAND LUMBER PLATE PLYWOOD POUNDS POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	O.C. OPNG OPP O.H.  PSL PL OR PLYWD R LBS PSF PSI
DEAD LOAD DIAMETER DOWN	D.L DIA OR Ø DN	RADIUS REFERENCE REINFORCING REQUIRED	R REF REINF REQ'D.
EACH EACH FACE EACH WAY ELECTRICAL ELEVATION EMBEDDED EQUAL EXISTING EXPANSION EXTERIOR	EA E.F. E.W. ELEC EL EMBED EQ EXIST EXP EXT	SHORT SLOTTED HOLE SIMILAR SLAB JOINT SPECIFICATIONS SQUARE STANDARD STEEL	SSH SIM SJ SPECS SQ STD STL
FAR FACE FAR SIDE FIRE RESISTANT FLOOR FOOT	F.F. F.S. F.R.T.P. FLR FT	TRANSVERSE TOP TOP AND BOTTOM TOP OF CONCRETE TOP OF FOOTING TOP OF STEEL TUBE STEEL TYPICAL	TRANS T/ T&B TOC TOF TOS TS TYP
GAUGE GLUE LAM BEAM	GA GLB	UNLESS NOTED OTHERWISE	U.N.O.
HEADED ANCHOR STUD HIGH STRENGTH HOLLOW STRUCTURAL SECTION HORIZONTAL	H.A.S. H.S. HSS HORIZ	VERIFY IN FIELD VERTICAL	V.I.F. VERT
INTERIOR	INT	WELDED WIRE FABRIC WIDE FLANGE WIDE FLANGE TEE WITH	W.W.F. WF WT W/
JOINT	JT		
KIP	K		

SEE ALSO THE ABBREVIATIONS LISTED ON THE ARCHITECTURAL DRAWINGS

## GENERAL STRUCTURAL NOTES

(APPLIES UNLESS NOTED OTHERWISE)

## CODE:

INTERNATIONAL BUILDING CODE 2000 (IBC 2000).

## DESIGN LOADS:

GROUND SNOW LOAD ————— 60 PSF  
MINIMUM FLAT ROOF SNOW LOAD — 50 PSF  
IMPORTANCE FACTOR ————— 1.0

## WIND LOADS:

BASIC WIND SPEED ————— 120 MPH  
EXPOSURE ————— C  
IMPORTANCE FACTOR ————— 1.00

## SEISMIC USE GROUP:

SEISMIC USE GROUP ————— I  
SITE CLASS ————— D  
Ss ————— 16.8 %g  
S1 ————— 15.1 %g  
INCLUDE 25% OF THE ROOF SNOW LOAD AS  
SEISMIC DEAD LOAD

## FOUNDATIONS:

GEOTECHNICAL CONSULTANT: ————— GEOTECHNICAL INVESTIGATION FOR THE WRANGELL SAND & CHEMICAL STORAGE BUILDING, PROJECT NO. 67547, PREPARED BY MITCH McDONALD, ENGINEERING GEOLOGIST, STATE OF ALASKA, DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, DATED APRIL 12, 2000.

ASSUMED SOIL BEARING = 2,000 PSF. REFER TO THE CIVIL DRAWINGS FOR EXCAVATION, SUBGRADE PREPARATION AND BACKFILL REQUIREMENTS.

THE FOUNDATION PLAN AND DETAILS ARE PRESENTED FOR BIDDING PURPOSES AND MAY NEED TO BE ALTERED TO ACCOMMODATE THE CONTRACTOR'S PROPOSED BUILDING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FOOTING SIZE, FOOTING LOCATIONS, PILE SIZE, REINFORCING DETAILS, COLUMN LOCATIONS AND ANCHOR BOLT LAYOUTS TO CONFORM TO THE ACTUAL DETAILS OF THE METAL BUILDING SYSTEM BEING PROVIDED. ALL ALTERATIONS REQUIRED FOR THE FOUNDATION SYSTEM SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF ALASKA AND BE SUBMITTED TO THE STATE OF ALASKA PROJECT MANAGER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

## CONCRETE:

TYPICAL CONCRETE COMPRESSIVE STRENGTHS		
CONCRETE	MINIMUM 28 DAY COMPRESSIVE STRENGTH	SLUMP AT PLACEMENT
UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE — 3,000 PSI — 4 1/2" MAXIMUM		

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP NOT EXCEEDING 3", TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.

ADDITION OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT SLUMP WILL NOT BE PERMITTED.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE. UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER, ALL CONCRETE SLABS ON GRADE SHALL BE BONDED BY CONSTRUCTION JOINTS, KEYED OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

## REINFORCING:

TYPICAL REINFORCING BAR STRENGTHS	
#3 OR LARGER —————	ASTM A615 (GR60) DEFORMED

TYPICAL CLEAR CONCRETE COVERAGE	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH —————	3"
FORMED CONCRETE —————	{ #6 AND LARGER — 2" #5 AND SMALLER — 1 1/2"
ALL OTHERS PER LATEST EDITION OF ACI 318.	

## LAP SPLICES IN CONCRETE:

UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, WALLS, AND SLABS SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL. PROVED BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS (O.C.). ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF ACI 318.

## SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE, AND SIGN ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

## SPECIAL INSPECTIONS:

SPECIAL INSPECTION IS REQUIRED DURING THE FOLLOWING OPERATIONS PER IBC SECTION 1705:

CONCRETE: DURING TAKING OF SPECIMENS AND PLACEMENT OF ALL CONCRETE. SEE PROJECT SPECIFICATIONS FOR FREQUENCY OF TESTING AND STRENGTH REQUIREMENTS.

BOLTS INSTALLED IN CONCRETE: PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.

REINFORCING STEEL: DURING PLACEMENT OF REINFORCING STEEL AND CONTINUOUS SPECIAL INSPECTION DURING THE INSTALLATION OF MECHANICAL REINFORCING COUPLINGS.

WELDING: DURING ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

HIGH STRENGTH BOLTING: WHILE THE WORK IS IN PROGRESS, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE REQUIREMENTS FOR BOLTS, NUTS, WASHERS, AND PAINT; BOLTED PARTS; AND INSTALLATION AND TIGHTENING ARE MET.

## DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE STATE OF ALASKA PROJECT MANAGER AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

3. UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

## STRUCTURAL OBSERVATION:

THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM THE STRUCTURAL OBSERVATION AS DEFINED IN THE IBC. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

## GENERAL:

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (FOOTINGS, TENSION TIES OR PILASTERS) WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES IN DETAILING NECESSARY IF PRODUCTS OTHER THAN THOSE SPECIFIED ON THE DRAWINGS ARE USED.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES, AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, INCLUDING CHANGES TO THE FOUNDATION PLAN REQUIRED TO ACCEPT THE BUILDING SYSTEM, SHALL BEAR THE SEAL OF A CIVIL ENGINEER REGISTERED IN THE STATE OF ALASKA.

Project As Built Drawings Have Been  
Reviewed By The Project Engineer &  
Represent, To The Best Of My Knowledge,  
The Project As Constructed.

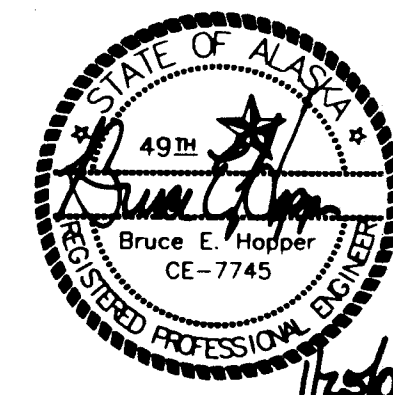
Proj. Eng. *[Signature]* Date 11/16/03

RECORD OF REVISIONS		
DATE:	DESCRIPTION OF CHANGE:	
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XX/XX/XX		

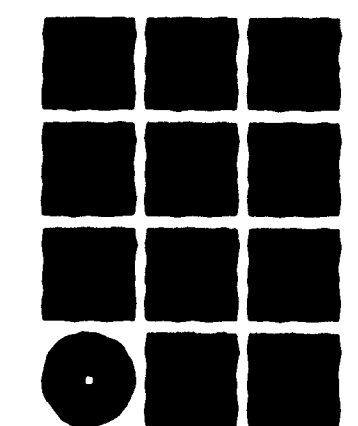
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DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY:	PROJECT NO. 67547 AIP NO. 3-08-0323-0002
DRAWN BY:	DATE: November 21, 2001
CHECKED BY:	SHEET 21 OF 30



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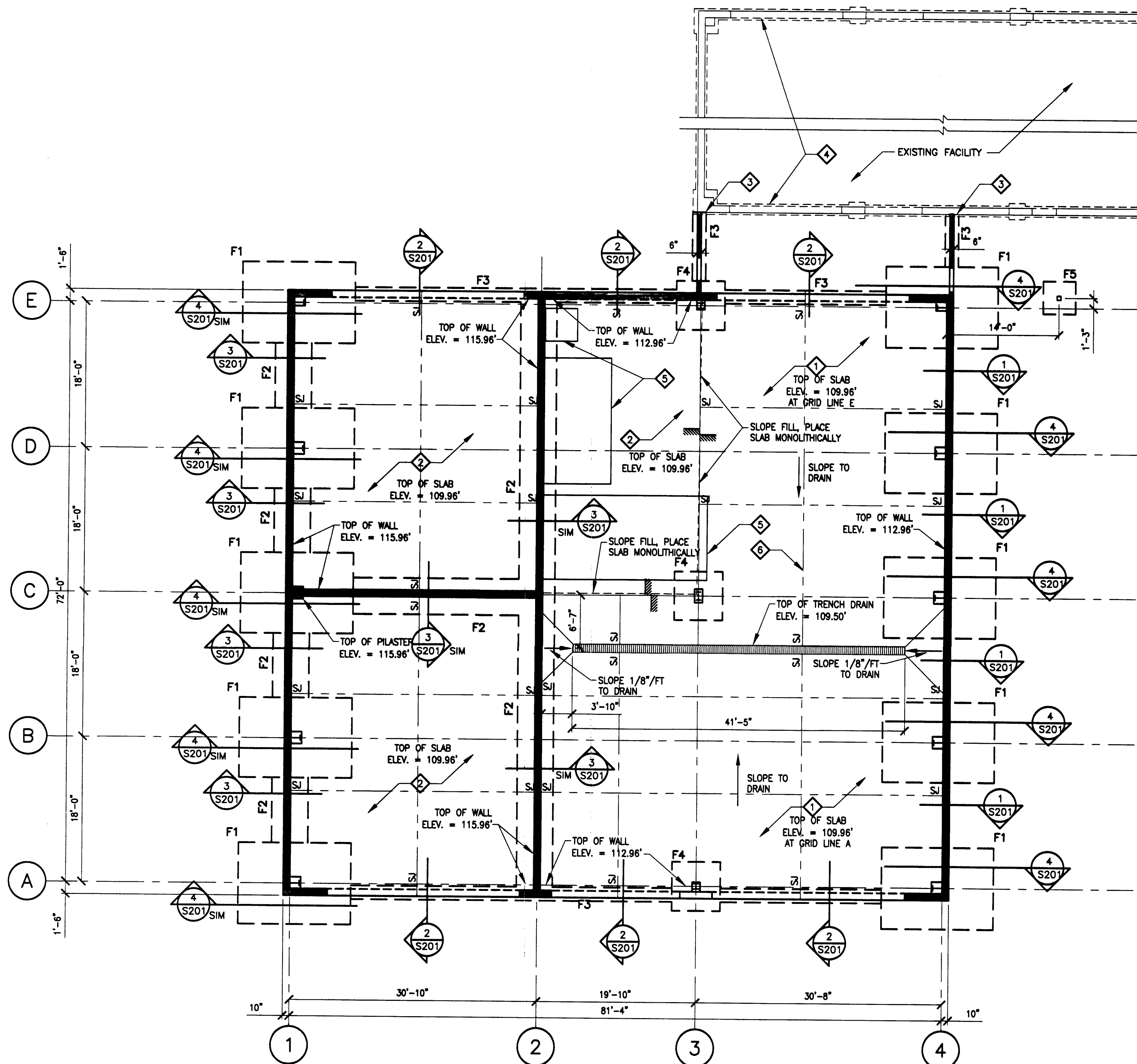


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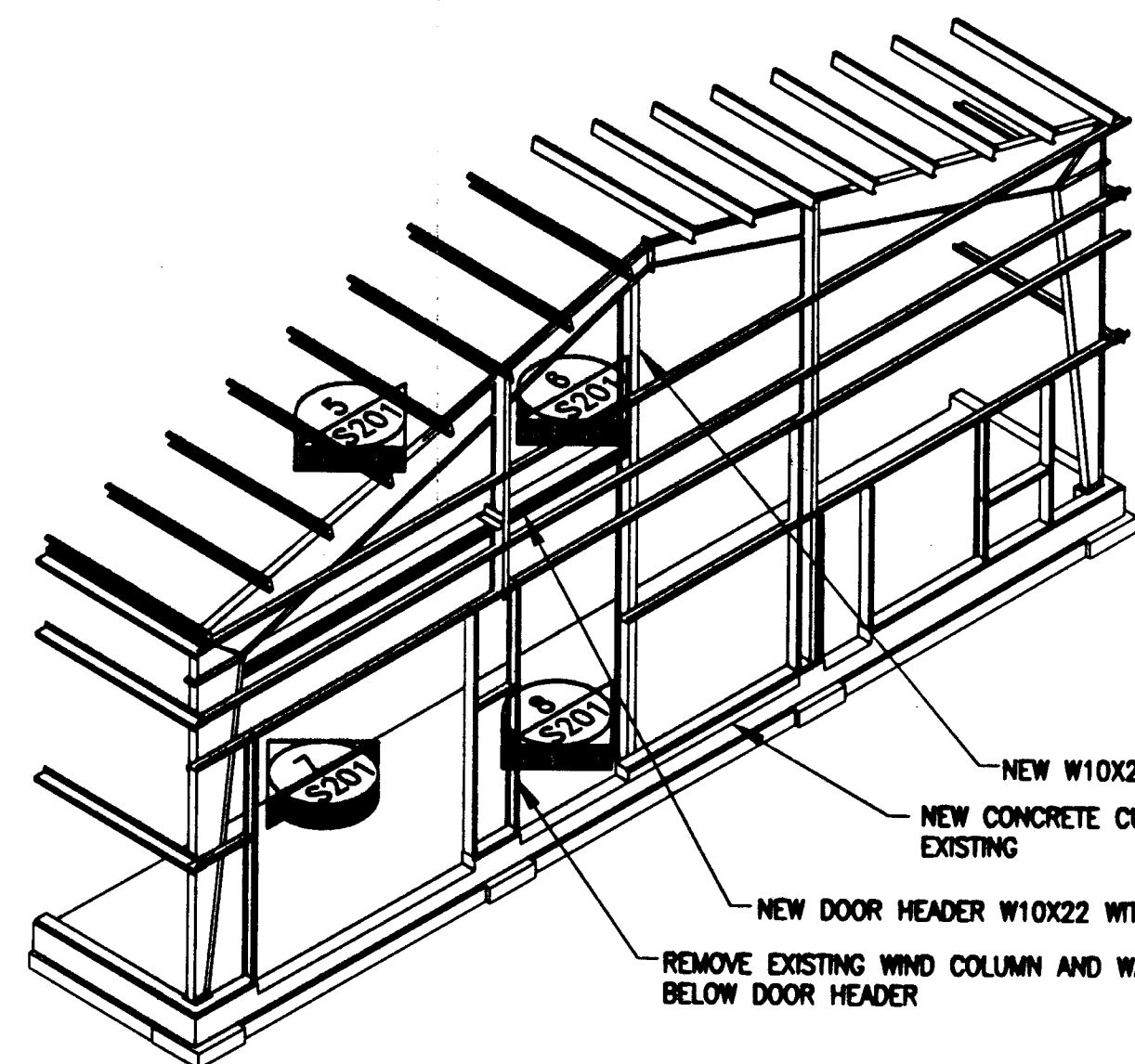
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NOTE:  
DO NOT SCALE FROM THESE  
PLANS - USE DIMENSIONS





**1 FOUNDATION PLAN**  
S101 SCALE: 1/8"=1'-0" SCALE: 0 4' 8' 16'



**2 END WALL FRAMING**  
S101 SCALE: N.T.S.

- KEY NOTES**
- 1 6" CONCRETE SLAB ON GRADE W/ #4 AT 12" O.C. EACH WAY, CENTERED IN SLAB. TOP OF SLAB ELEVATION AS INDICATED ON PLAN. TREAT WITH CURING/SEALING COMPOUND ONLY.
  - 2 8" CONCRETE SLAB ON GRADE W/ #5 AT 12" O.C. EACH WAY, CENTERED IN SLAB. REPLACE 15% OF THE PORTLAND CEMENT IN THE CONCRETE MIX WITH EQUAL AMOUNT OF FLY ASH. TOP OF SLAB ELEVATION AS INDICATED ON PLAN. TREAT SURFACE OF SLAB WITH SILICATE PENETRATING LIQUID FLOOR TREATMENT PER MANUFACTURER'S RECOMMENDATIONS.
  - 3 DO NOT DOWEL NEW FOOTING OR SLAB TO EXISTING.
  - 4 RE-FRAME END WALL FOR NEW OPENING.
  - 5 REFER TO THE MECHANICAL DRAWINGS FOR HOUSEKEEPING PAD SIZE AND LOCATION. REINFORCE THE PAD WITH 4X4 W1.4 X W1.4 WWF.
  - 6 SJ—SJ INDICATES A SAWN CONTRACTION JOINT IN THE SLAB. DISCONTINUE THE REINFORCING THROUGH THE JOINT, SEAL THE JOINT WITH A URETHANE JOINT FILLER AFTER THE SLABS HAVE CURED.

**FOOTING (F) SCHEDULE**

MARK	FOOTING DIMENSIONS		FOOTING REINFORCING	REMARKS
	SIZE	TH		
F1	10'-0" X 14'-0"	36"	#6 AT 12" EACH WAY TOP AND BOTTOM	TOP FOOTING ELEV.=108.96
F2	4'-6" X CONT.	20"	SEE 3/S201	TOP FOOTING ELEV.=108.96
F3	20" X CONT.	10"	(2) #5 CONT.	TOP FOOTING ELEV.=108.29
F4	6'-0" X 6'-0"	16"	(6) #5 EACH WAY, BOTTOM ONLY	TOP FOOTING ELEV.=108.29
F5	4'-0" X 4'-0"	12"	(4) #4 EACH WAY, BOTTOM ONLY	TOP FOOTING ELEV.=107.96

**RECORD OF REVISIONS**

BY:	DATE:	DESCRIPTION OF CHANGE:
X	XX/XX/XX	
X	XX/XX/XX	
X	XX/XX/XX	

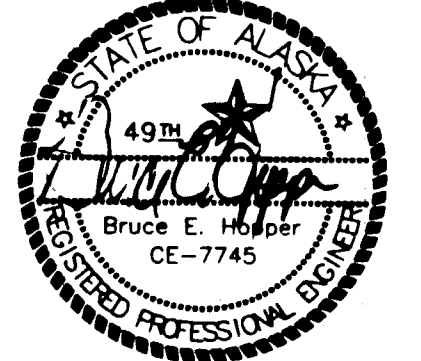
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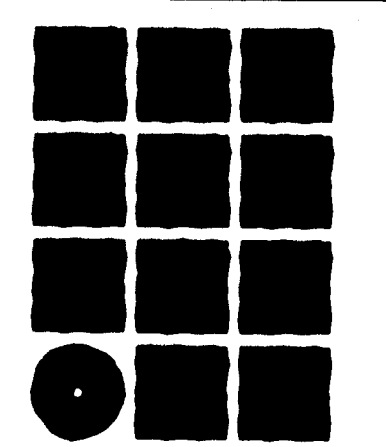
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:

**S101**  
PROJECT NO. 07647  
AIP NO. 3-05-0323-0008  
DATE: November 21, 2001  
SHEET 22 OF 30

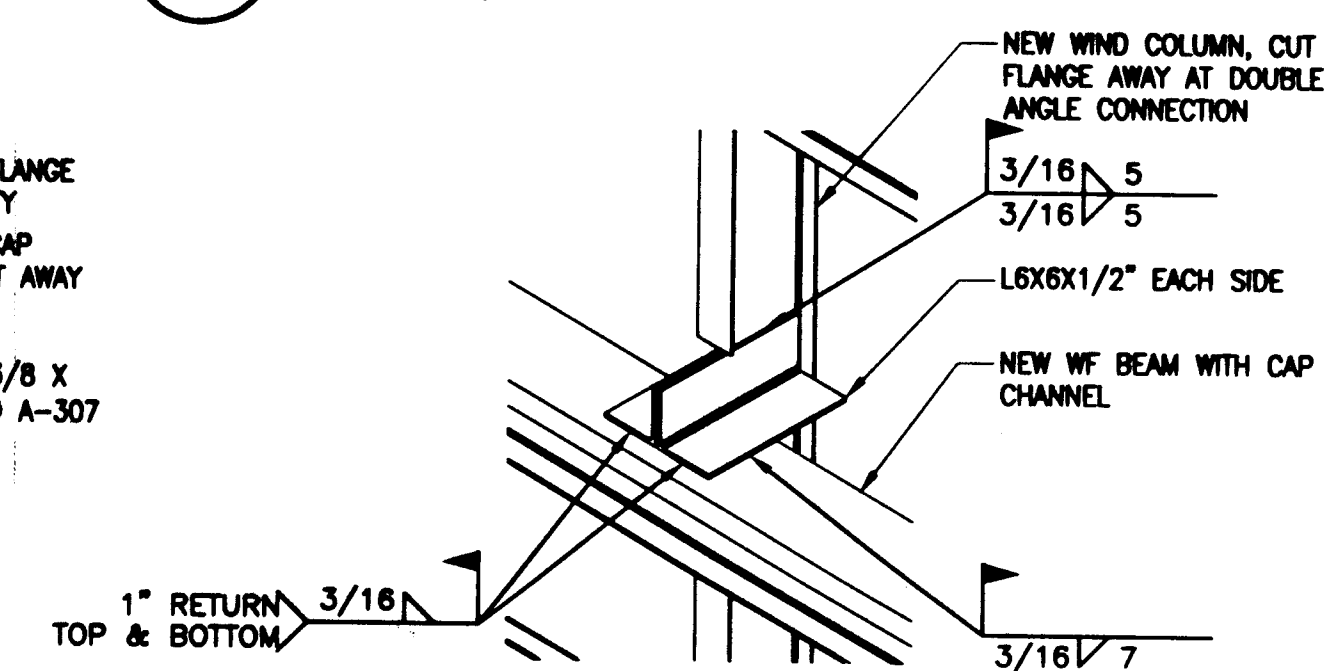
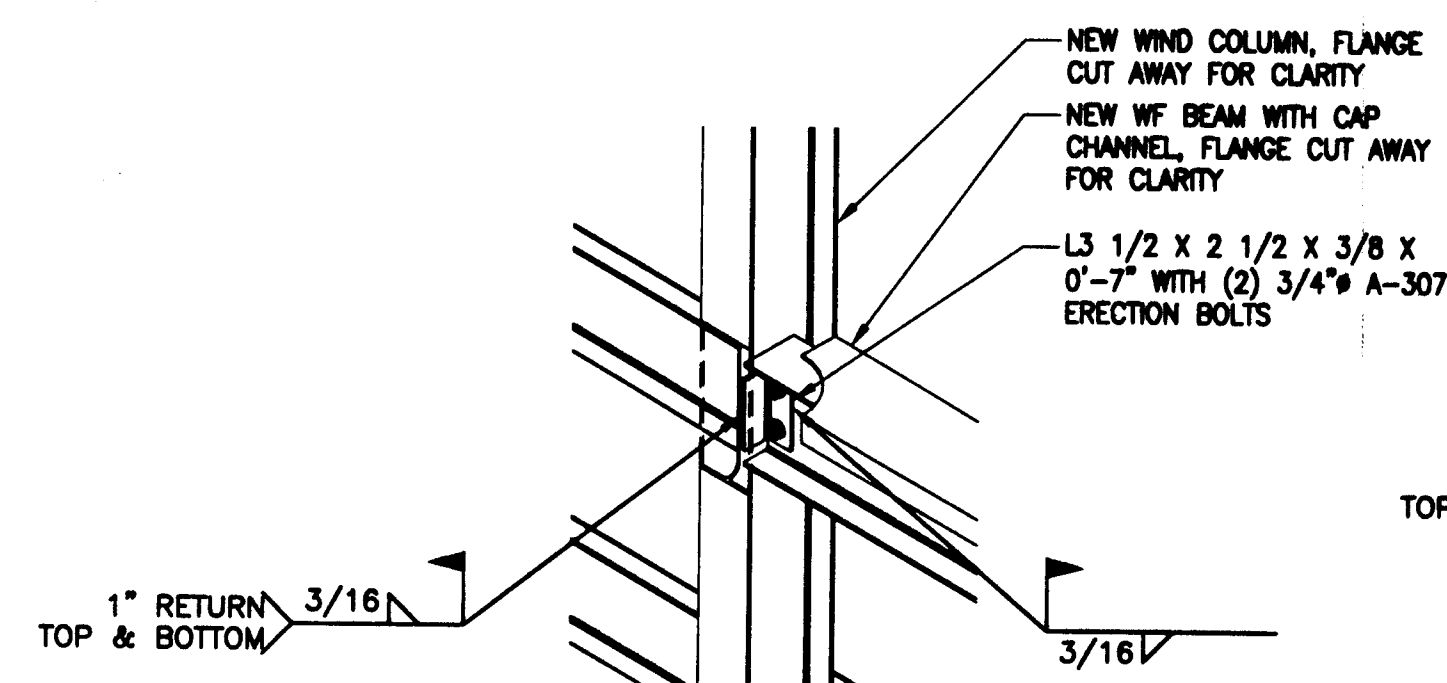
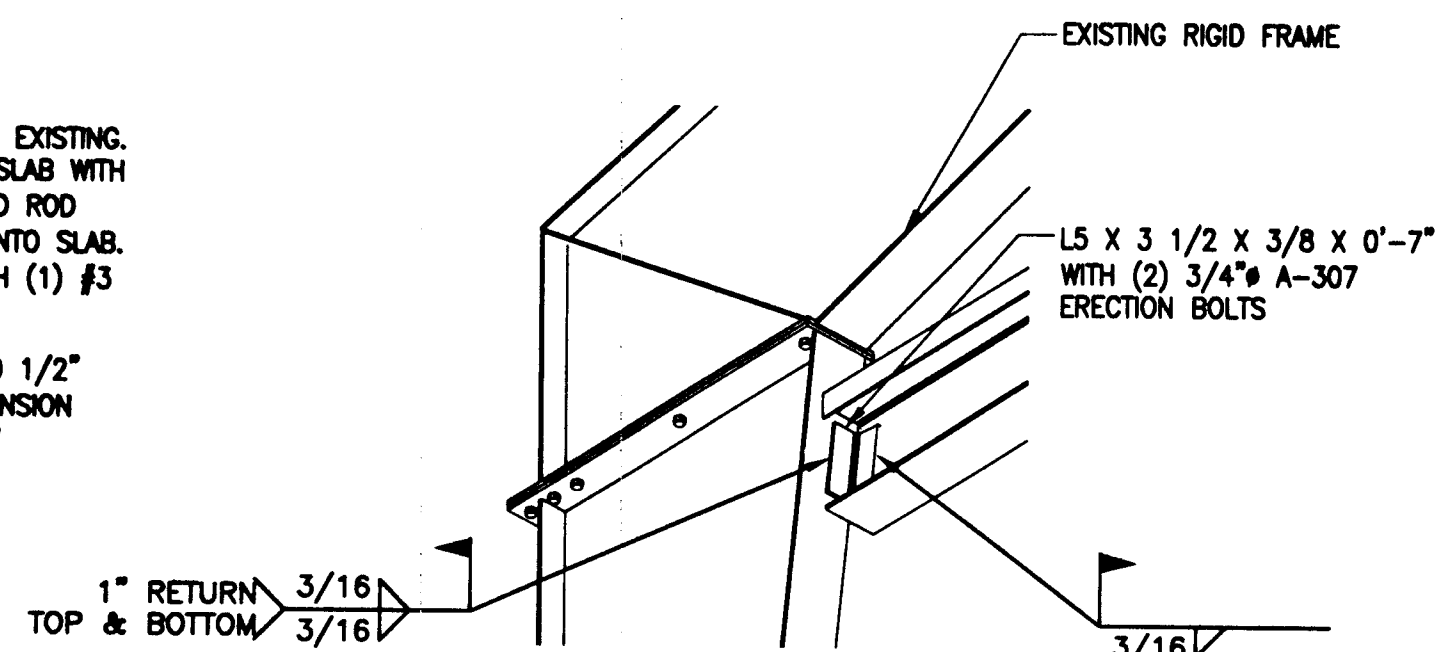
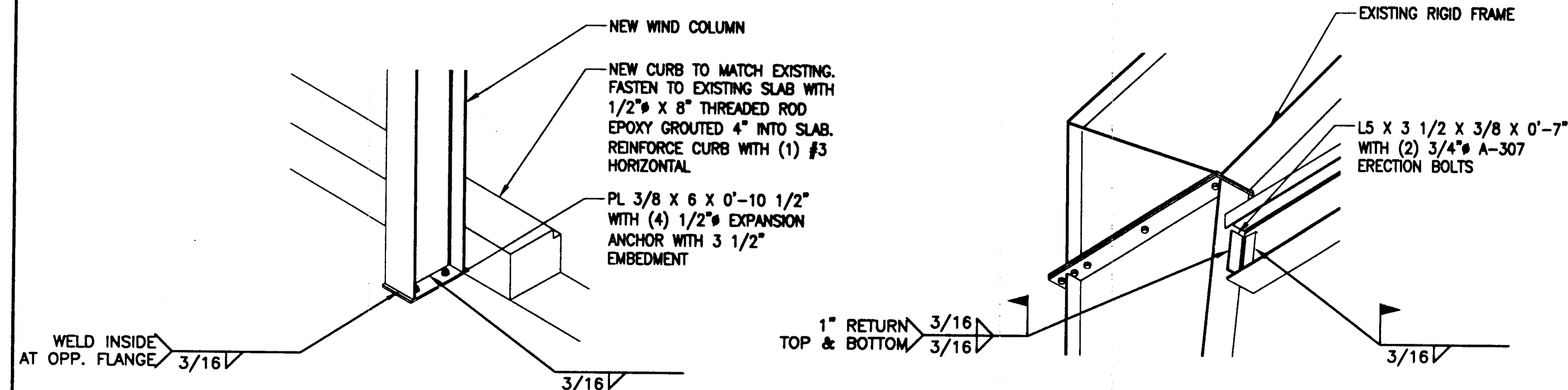
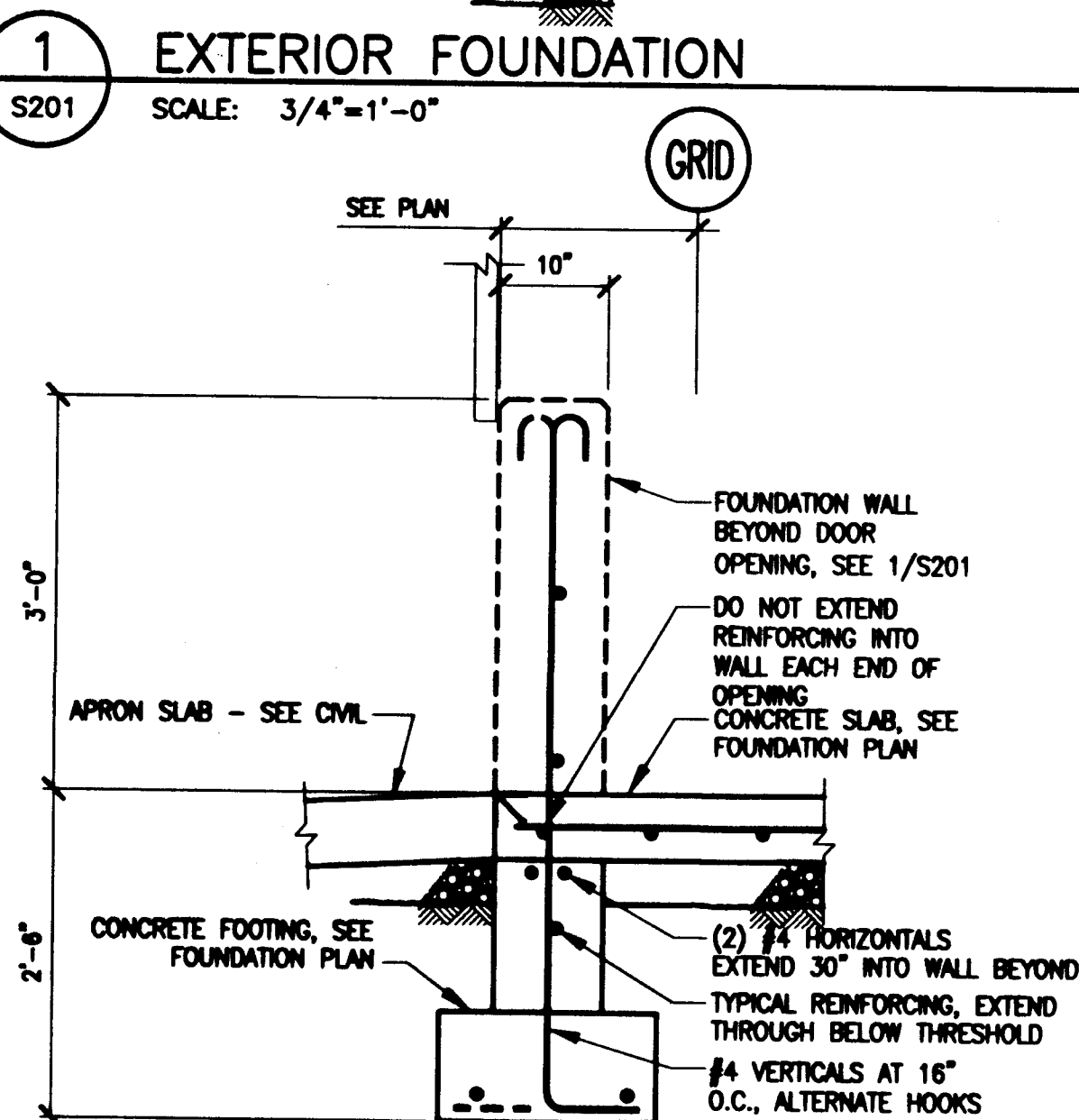
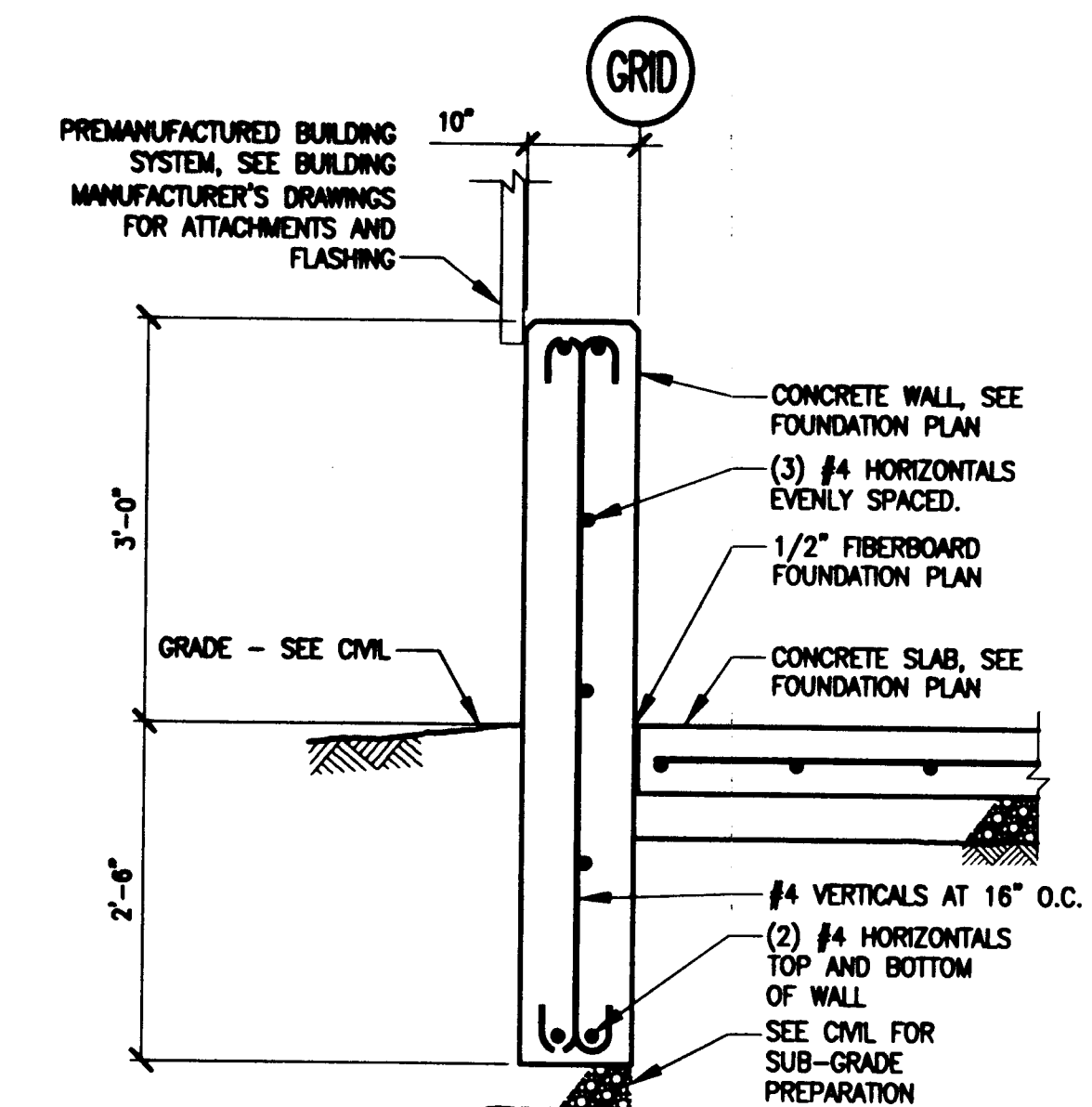
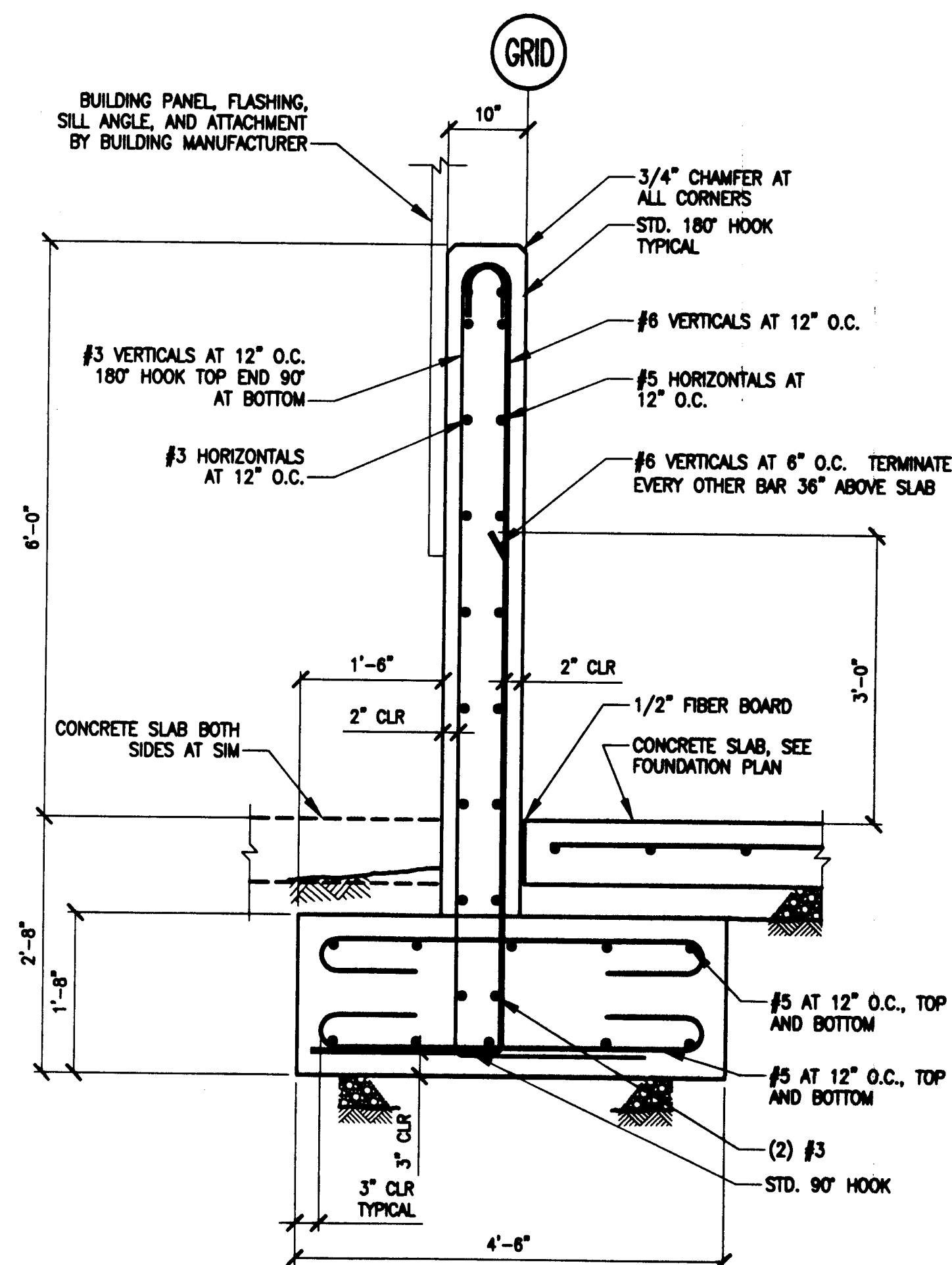
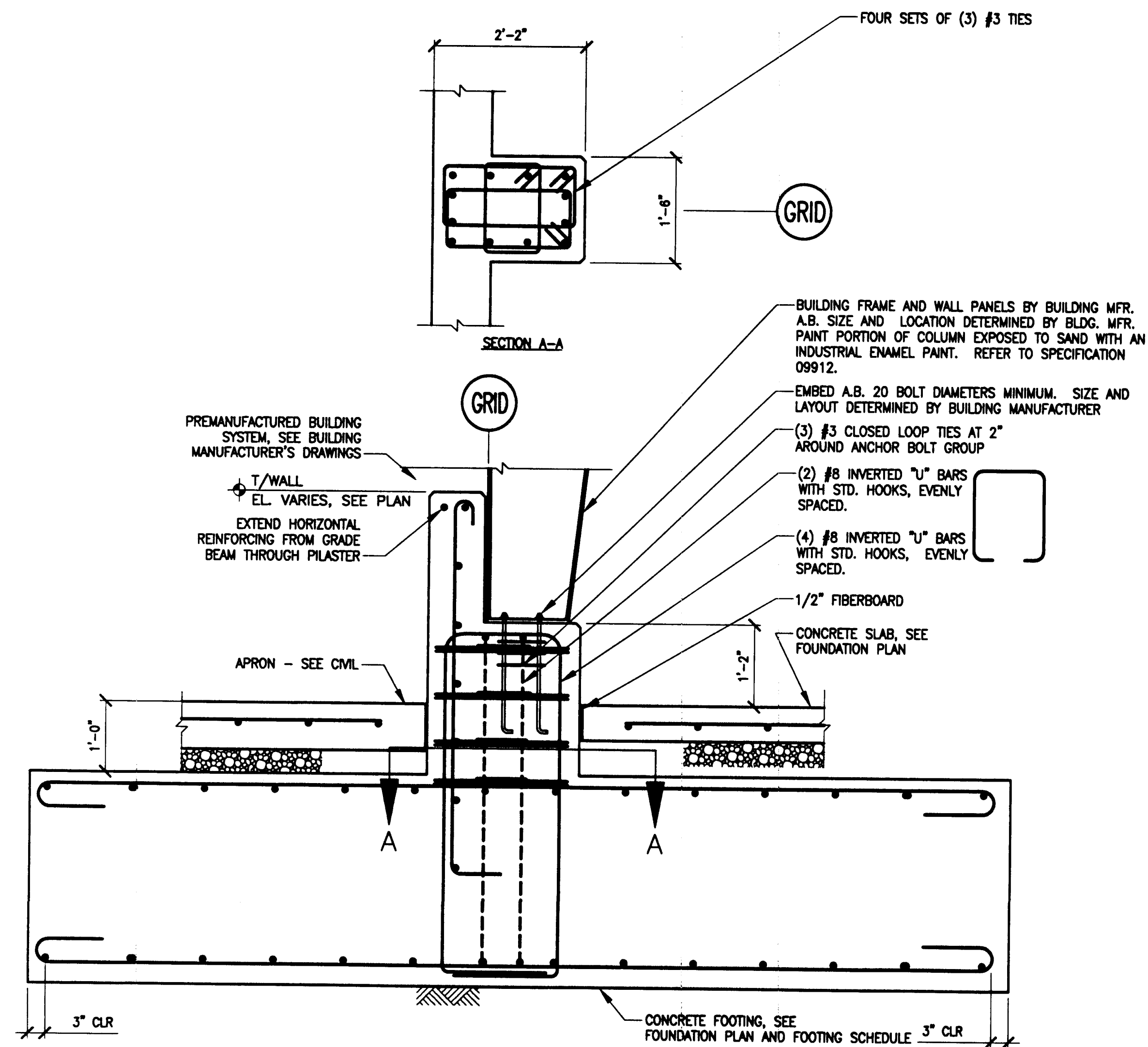
**NOTE:**  
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS



**JYB**  
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**Jensen Yorba Lott Inc.**  
522 West 10th Street  
Juneau, Alaska 99801  
phone 907-586-1070  
fax 907-586-3959  
jensenyorbalott.com



<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">8</div> </div>	<h2 style="margin: 0;">NEW COLUMN AT SLAB</h2>	
S201	SCALE: 3/4"=1'-0"	

PATH: .		
BY:	DATE:	DESCRIPTION OF CHANGE:
X	xx/xx/xx	
X	xx/xx/xx	
X	xx/xx/xx	

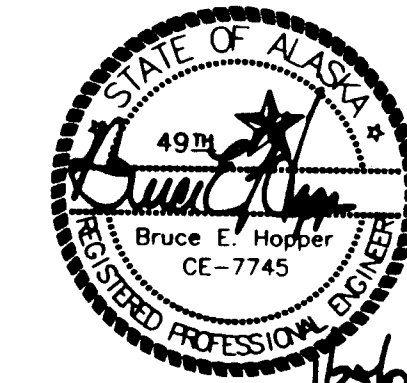
RECORD OF REVISIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

*WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION*

DESIGNED BY:
DRAWN BY:
CHECKED BY:

<b>S201</b>	
PROJECT NO. <i>67847</i> <i>AIP NO. 3-02-0323-0002</i>	
DATE: <i>November 21, 2001</i>	
SHEET <b>23</b> OF <b>30</b>	





DESIGNATION	EQUIPMENT	LOCATION	DESCRIPTION	ELECTRICAL HP, VOLTS, PHASE	BASIS OF DESIGN (MANUFACTURER, MODEL)	NOTES
LG-1	LEVEL GAGE	T-1	SIZE TO MATCH TANK	-	INFERNO MODEL ATS	-
LG-2	LEVEL GAGE	T-2	SIZE TO MATCH TANK	-	INFERNO MODEL ATS	-
TM-1	PROPELLER MIXER	T-1	425 RPM, 12" TURBINE	3, 208, 3	GROVAC, MODEL 700-3000-GD-ED	1
BU-1	BULK BAG UNLOADER	T-1	TO MATCH UREA BULK BAGS	-	AUTOMATED FLEXIBLE CONVEYOR	-
HO-1	HOPPER	BU-1	TO MATCH UREA BULK BAGS	-	AUTOMATED FLEXIBLE CONVEYOR	2
TV-1	TEMPERATURE REGULATOR	T-1	60 GPM, 22 PSI DROP, 1"	-	POWERS MODEL 11WM THERMAL SYSTEM 700-C15A102	-
BFP-1, 2	BACKFLOW PREVENTER	T-1	60 GPM, 2" SIZE	-	WATTS SERIES 909 BB	-
BM-1	BAG MASSAGER	BU-1	80 PSI, 2 CFM±- AIR	0, 120, 1	AUTOMATED FLEXIBLE CONVEYOR	-
AG-1	AGITATOR	HOPPER	COMPATIBLE W/ UREA PELLETS	1.5, 208, 3	AUTOMATED FLEXIBLE CONVEYOR	-
OWS-1	OIL-WATER SEPARATOR	-	40 GPM, 53 GALLON	-	ANCHORAGE TANK ATLLS40	3
AS-1	AIR SCOOP	AS-1	-	-	AMTROL 2"	-
ET-1	EXPANSION TANK	ET-1	7.6 GAL/2.4 GAL ACCEPT	-	AMTROL EXTROL MODEL 60	-
TH-1	TANK HEATER	T-1	20 GPM, 155,000 BTUH	-	ARMSTRONG IMMERSION TYPE FHS	-

NOTES:  
1. GEAR DRIVE FLANGE MOUNTED, SS SHAFT, TURBINE AND HOUSING.  
2. PROVIDE GRATE WITH AGITATOR, SEE AG-1.  
3. PROVIDE INTEGRAL UPSTREAM SAND TRAP AND EXTENSIONS AS NEEDED TO MEET DEPTH REQUIREMENT.

PUMP SCHEDULE													NOTES
DESIGNATION	SERVICE	GPM	HEAD (FT)	FLUID	BODY	RPM	SUCTION SIZE	DISCHARGE SIZE	ELECTRICAL			BASIS OF DESIGN (MFR & MODEL)	
									HP	VOLTS	PHASE		
CP-1,2	UREA CIRC	400	30	UREA/WATER	STAINLESS	1750	3"	3"	7.5	208	3	G&L PUMP, TRASH HOG II, MODEL 3DTH23EL	-
CP-3	HW CIRC	60	30	WATER	BRONZE	-	1-1/2"	1-1/2"	3/4	120	1	GRUNDFOS, MODEL UPS40-180	-
OP-1	FUEL OIL	30 GPH	200	FUEL OIL	BRONZE	-	3/4"	3/4"	1/4	120	1	MODINE (WEBSTER SPW-30-1)	-

FAN SCHEDULE										
DESIGNATION	LOCATION	SERVICE	CFM	RPM	SP "w.g.	NOISE CRITERIA SONES	ELECTRICAL HP, VOLTS, PHASE	WEIGHT LBS	BASIS OF DESIGN (MANUFACTURER, MODEL)	NOTES
EF-1	114	AREA EXHAUST	10,000	860	.25	33	1, 208, 3	290	GREENHECK S2-30-625-C10	-
CF-1,2	111, 114	CEILING	27500	-	-	-	180W, 120, 1	24	LEADING EDGE 5600-1	-
NOTES: 1. PROVIDE VFD. CONTRACTOR SHALL ENSURE COMPATIBILITY BETWEEN FAN MOTOR AND VFD.										

OIL FIRED EQUIPMENT SCHEDULE							
DESIGNATION	EQUIPMENT	LOCATION	DESCRIPTION	ELECTRICAL HP, VOLTS, PHASE	WEIGHT LBS	BASIS OF DESIGN (MANUFACTURER, MODEL)	NOTES
WH-1	OIL-FIRED WATER HEATER	111	192 GAL, 1,286 GPH RECOVERY • 90 DEG RISE	0.25, 120, 1	4300	BOCK MODEL 200E-1150	-
UH-1,2,3,4	OIL-FIRED UNIT HEATER	111, 114	185,000 BTUH OUTPUT	0.33, 120, 1	398	MODINE MODEL POH185	-

TANK SCHEDULE				
DESIGNATION	EQUIPMENT	CAPACITY (GAL)	BASIS OF DESIGN (MFR & MODEL)	NOTES
T-1	UREA MIXING TANK	4000	GREER	-
T-2	UREA STORAGE TANK	12,000	GREER	-
T-3	OWS-1 EFFLUENT TANK	1,000	GREER	-

# MECHANICAL LEGEND

	3-PORT CONTROL VALVE		GLOBE VALVE
	CHECK VALVE		BALANCING VALVE
	PIPE UP		AUTOMATIC FLOW CONTROL VALVE
	PIPE DOWN		BALL VALVE
	AUTOMATIC AIR VENT		2-PORT CONTROL VALVE
	THERMOMETER		GATE/SHUTOFF VALVE
	UNION		SAFETY RELIEF VALVE OR PRESSURE RELIEF VALVE
	CONCENTRIC REDUCER		ANGLE VALVE
	ECCENTRIC REDUCER		TRIPLE DUTY VALVE
	PIPE FLANGE		BUTTERFLY VALVE
	PIPE ANCHOR		PLUG VALVE
	PIPE GUIDE		STRAINER WITH BLOW DOWN VALVE
	PUMP		NEEDLE VALVE
	VACUUM BREAKER		PRESSURE GAUGE
	OIL FILTER		STEAM PRESSURE GAUGE
	FLEX PIPE CONNECTION		DOMESTIC COLD WATER
	FUSIBLE SAFETY VALVE		DOMESTIC HOT WATER
	TURNING VANES		DOMESTIC HOT WATER CIRC.
	SHEETMETAL DIMENSIONS INDICATES 1"		SANITARY VENT
	DUCT		COMPRESSED AIR
	SOUNDLINING THICKNESS		FUEL OIL SUPPLY
	DUCT SOUNDLINING		FUEL OIL RETURN
	SHEETMETAL DIMENSIONS		Number of Fixture Units
	SMOKE DAMPER		WATER HAMMER ARRESTER
	COMBINATION FIRE & SMOKE DAMPER		FLOOR DRAIN OR FLOOR SINK
	FIRE DAMPER		FLOOR CLEANOUT (FCO)
	DUCT INSULATION		WALL OR HORIZONTAL CLEANOUT
	MOTOR OPERATED DAMPERS		THERMOSTAT OR TEMPERATURE SENSOR
	VOLUME DAMPER		DUCT SMOKE DETECTOR
	DUCT SILENCER		DIRECTION OF AIR FLOW
	R/A OR E/A DUCT SECTION		EQUIPMENT DESIGNATION, (E) INDICATES EXISTING CFM
	S/A, C/A OR O/A DUCT SECTION		FLEX. DUCT
	VAV BOX WITH REHEAT COIL		SLOT NO./DIRECTION
	VAV BOX SIZE (CFM)		SLOT DIFFUSER
	VAV BOX WITHOUT REHEAT COIL		DUCT SECTION NUMBER
	VAV BOX SIZE (CFM)		DUCT SIZE (INCHES)
			EQUIPMENT DESIGNATION (UH, CUH, CONV. OR RC)
			EQUIPMENT DESIGNATION (BB)
			GPM FLOW RATE
			ACTIVE ELEMENT LENGTH
			SHEET NOTE REFERENCE
			NEW/EXISTING CONNECTION
			TRAP PRIMER

ALL SYMBOLS DO NOT NECESSARILY APPEAR ON DRAWINGS

Proj. Eng. CHZ Date 6/9/03

A circular professional engineer seal for the State of Alaska. The outer ring contains the text "STATE OF ALASKA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the text "49TH year" is written in a stylized font above a five-pointed star. Below the star, the name "SCOTT V. BELL" and the number "ME-7355" are printed. The seal is signed with "34602" in the bottom right corner.

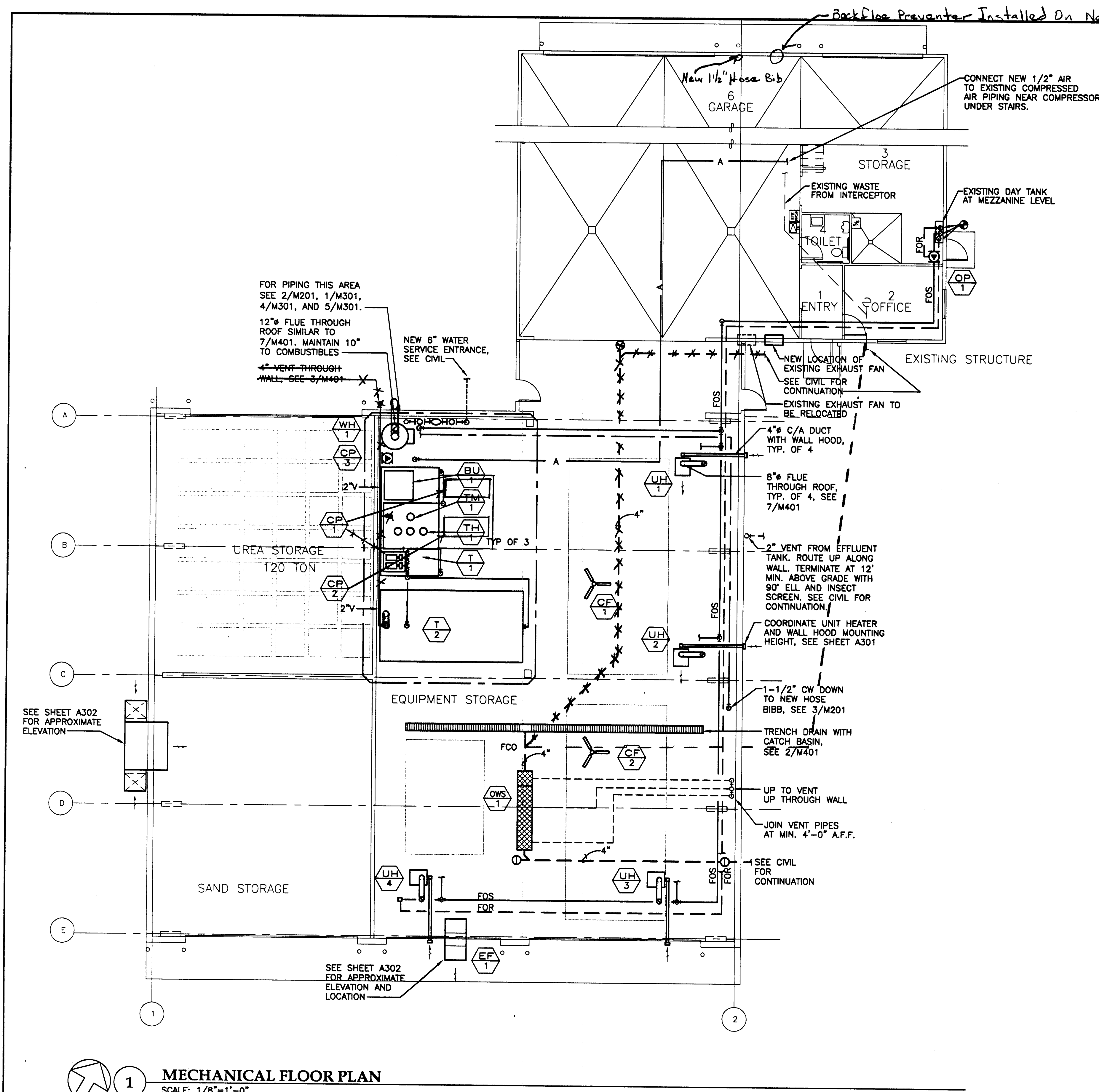
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BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

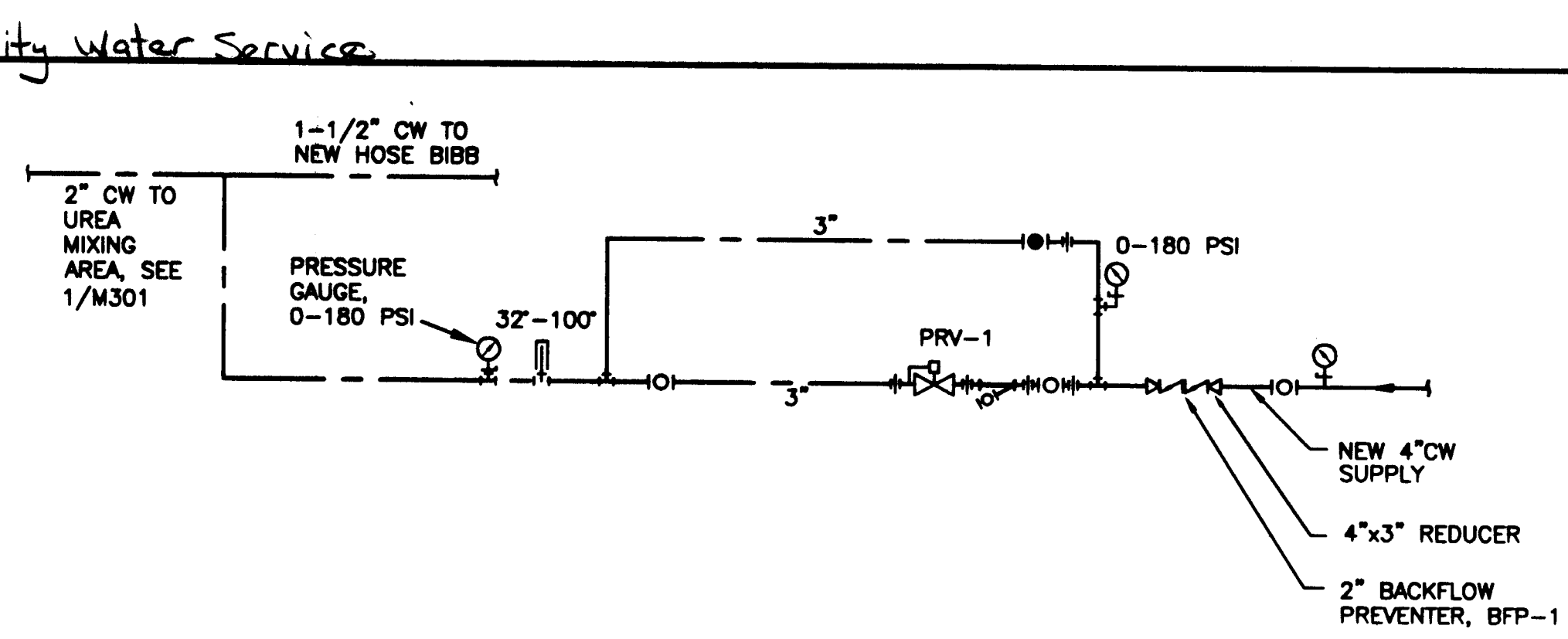
*WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION*

DESIGNED BY:	HBR
DRAWN BY:	LDS
CHECKED BY:	HBR

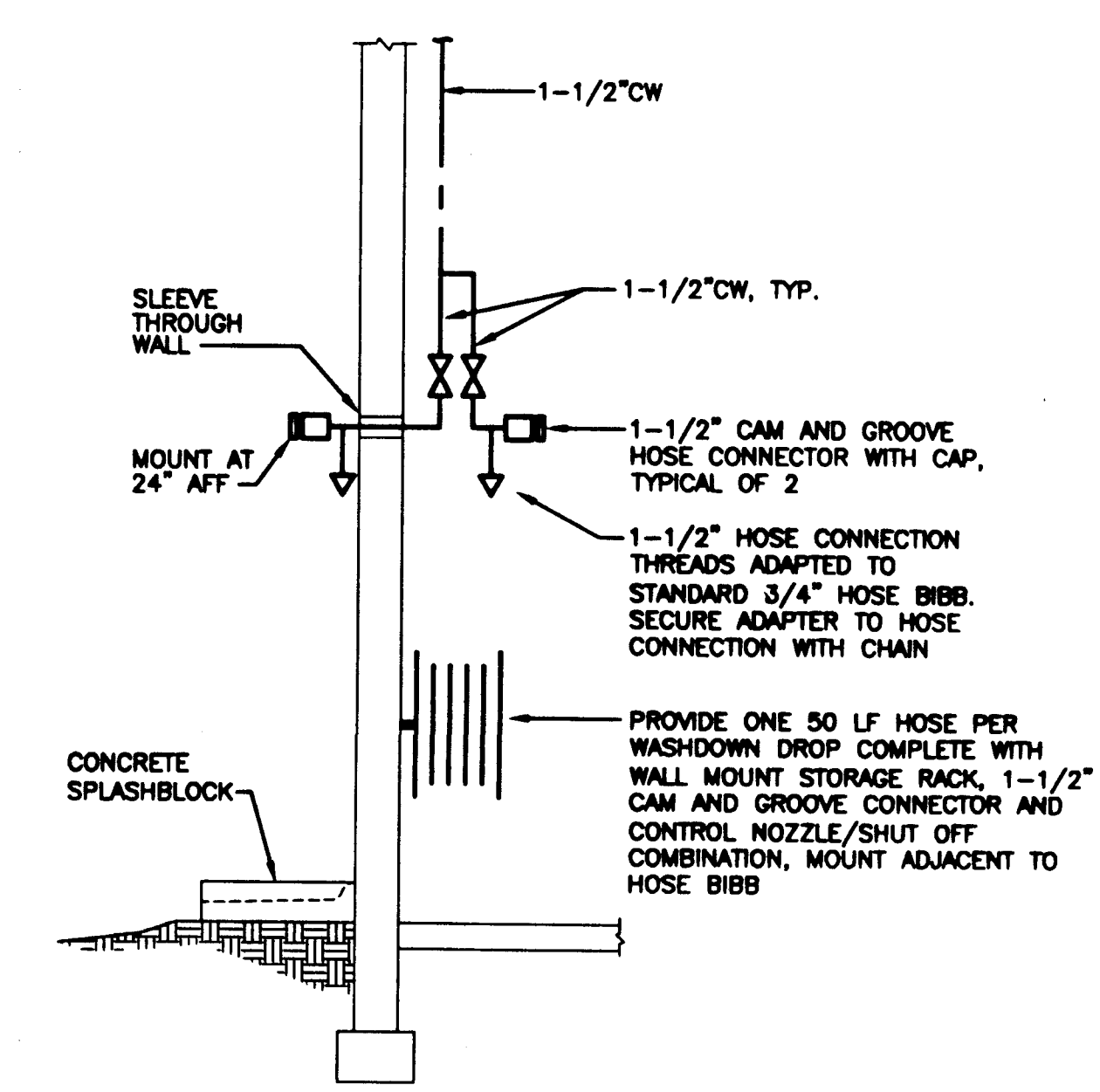
M101	
PROJECT NO.	67547
AIP	3-02-0323-0902
DATE:	November 21, 2001
SHEET	24 OF 30



**1 MECHANICAL FLOOR PLAN**  
SCALE: 1/8"=1'-0"



**2 WATER SERVICE ENTRANCE DETAIL**  
NOT TO SCALE



**3 WASHDOWN WATER SCHEMATIC**  
NOT TO SCALE

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *CHW* Date *4/9/03*

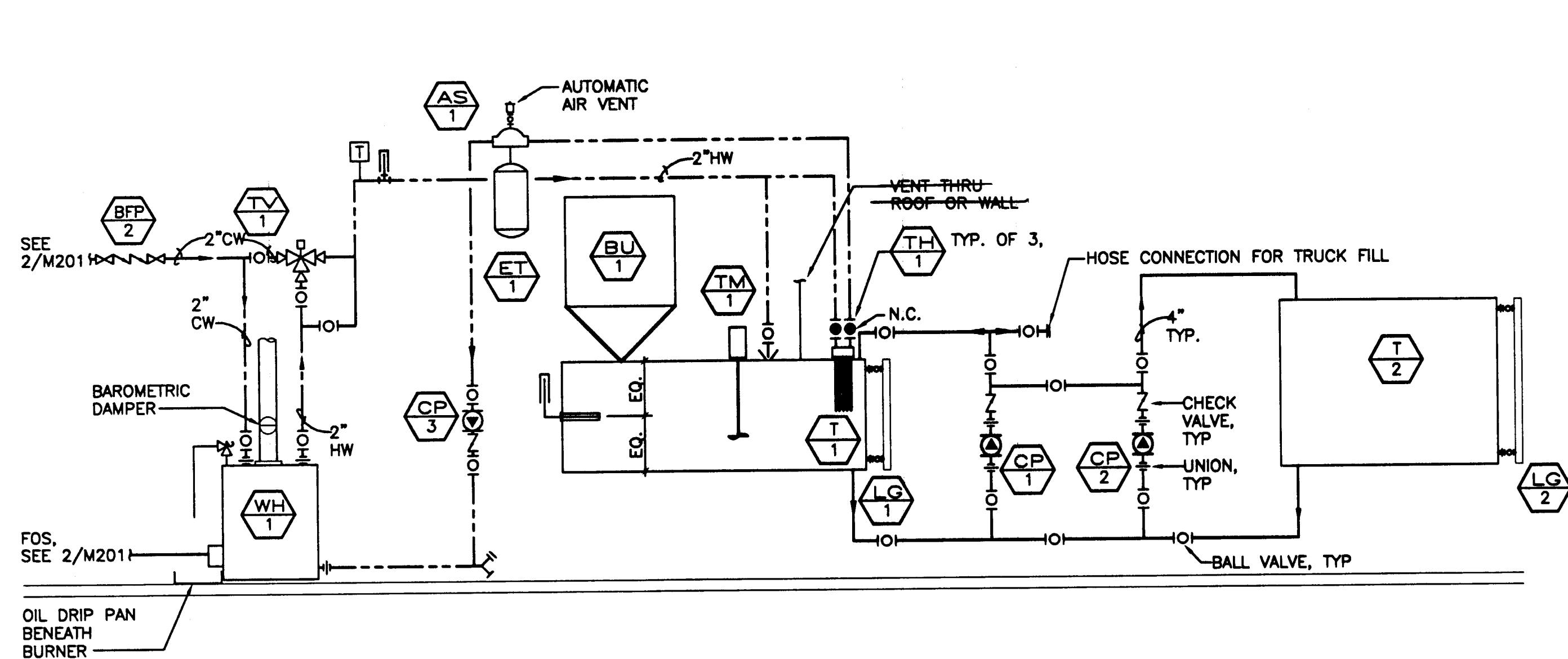
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RECORD OF REVISIONS		

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	WRANGELL AIRPORT SAND & CHEMICAL STORAGE BUILDING ADDITION	DESIGNED BY: <b>HBR</b>	<b>M201</b> PROJECT NO. <b>07547</b> AIP <b>3-08-0323-0902</b>
		DRAWN BY: <b>LDS</b>	DATE: <b>November 21, 2001</b>
CHECKED BY: <b>HBR</b>		SHEET <b>25</b> OF <b>30</b>	

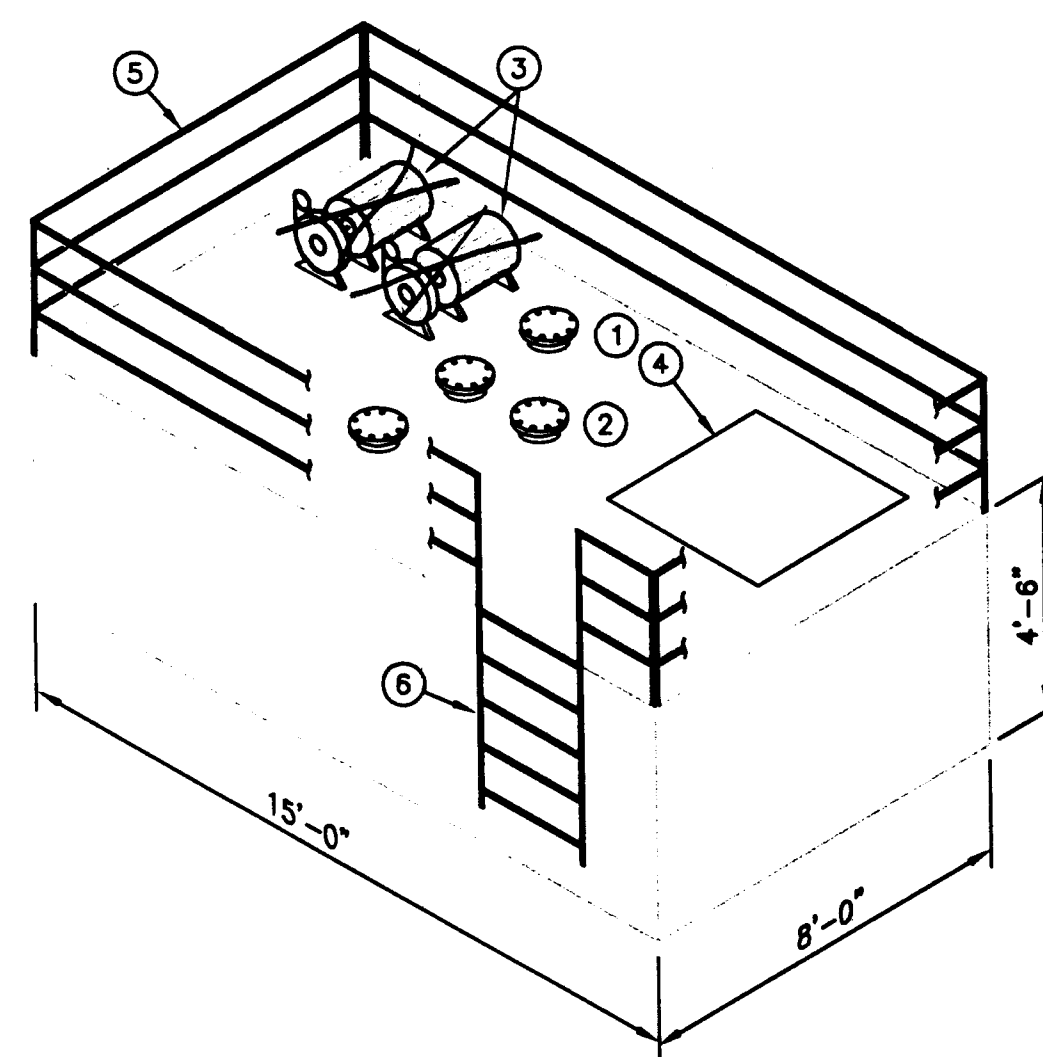
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 phone 907-586-1070  
 fax 907-586-3959  
 jensenyorbaloott.com

NOTE:  
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 PLANS - USE DIMENSIONS

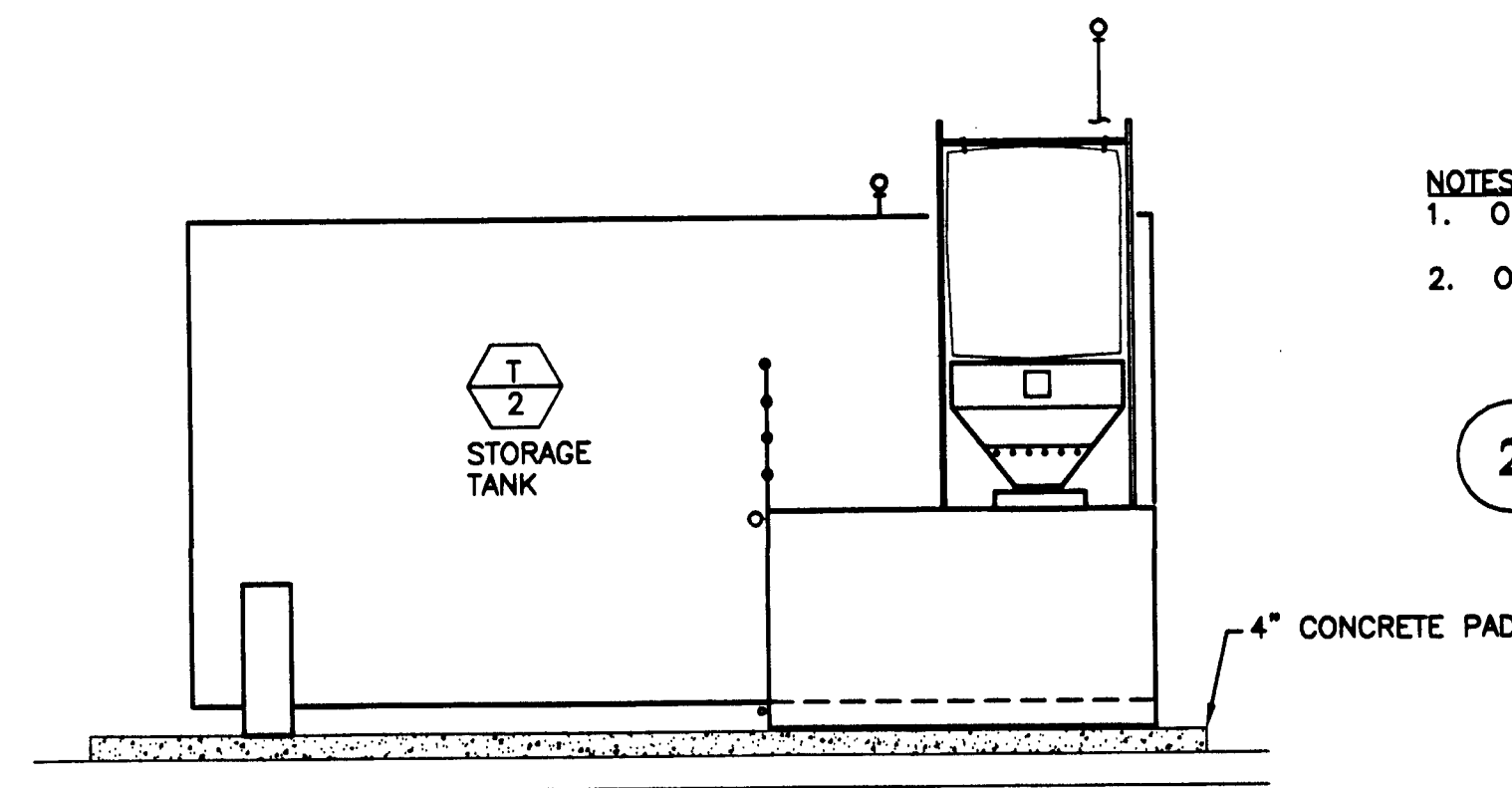


1 SCHEMATIC-UREA MIXING AND STORAGE  
NOT TO SCALE

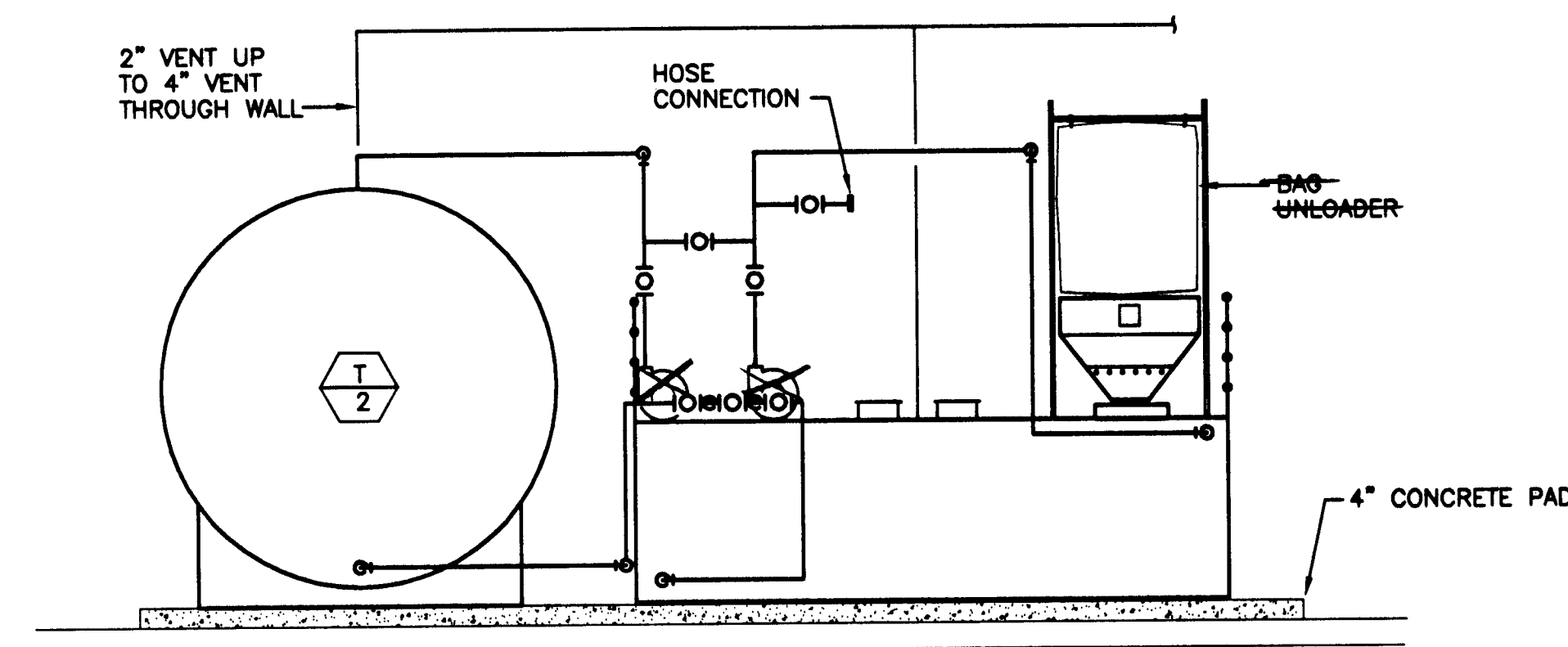


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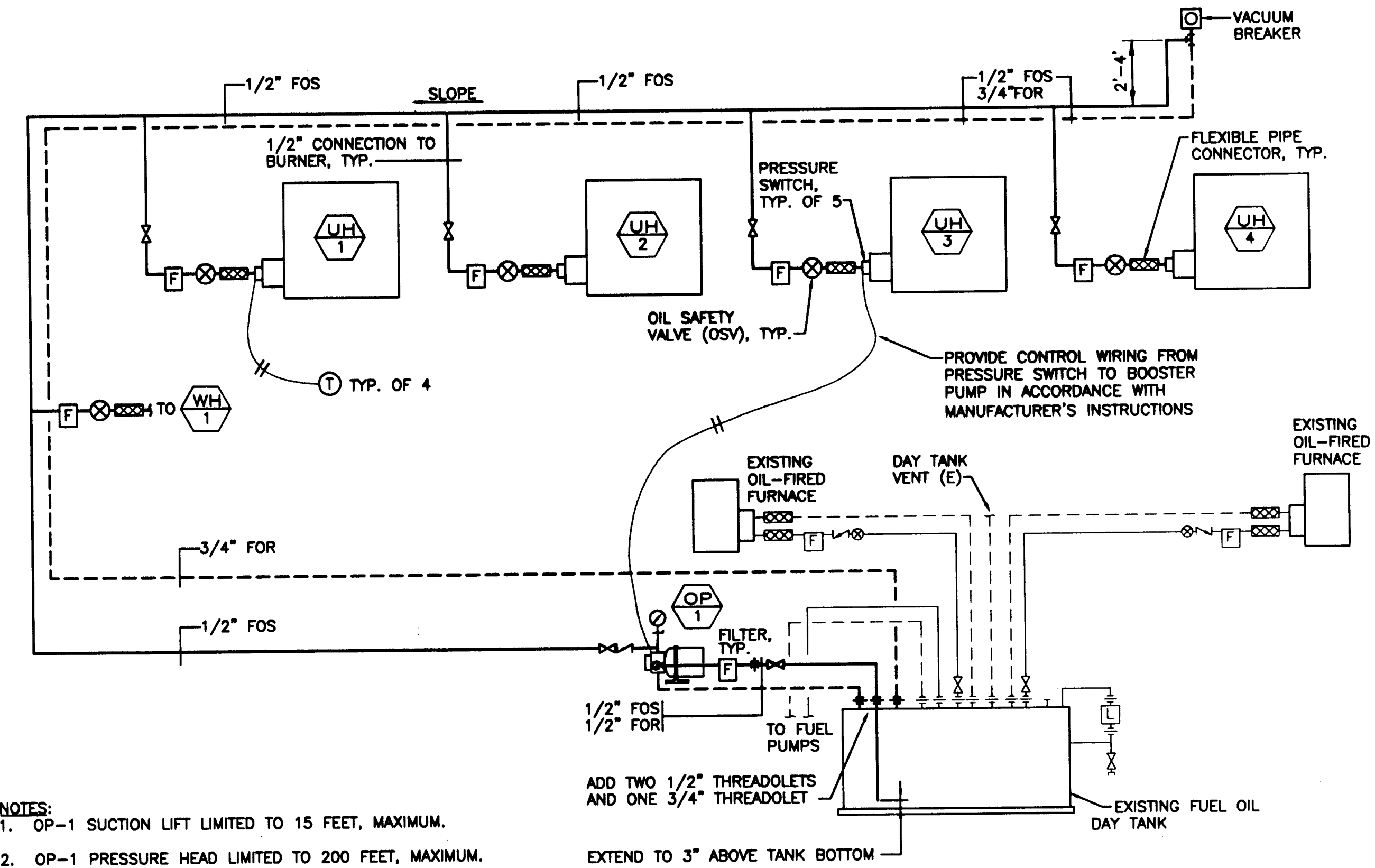
3 MIXING TANK ISOMETRIC  
NOT TO SCALE



4 SECTION  
1/4\"/>

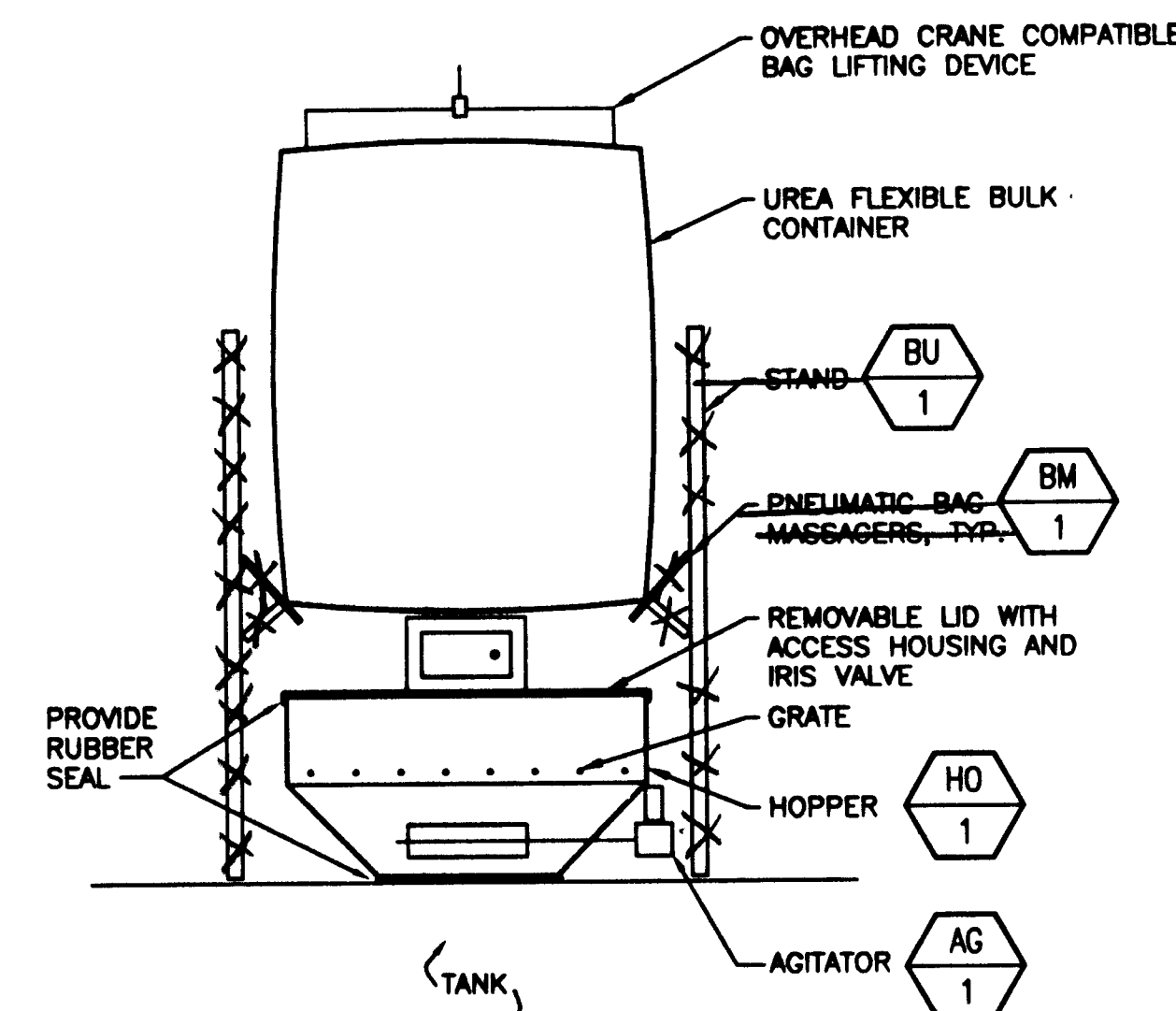


5 SECTION  
1/4\"/>



- NOTES:
- OP-1 SUCTION LIFT LIMITED TO 15 FEET, MAXIMUM.
  - OP-1 PRESSURE HEAD LIMITED TO 200 FEET, MAXIMUM.

2 SCHEMATIC-FUEL OIL PIPING  
NOT TO SCALE



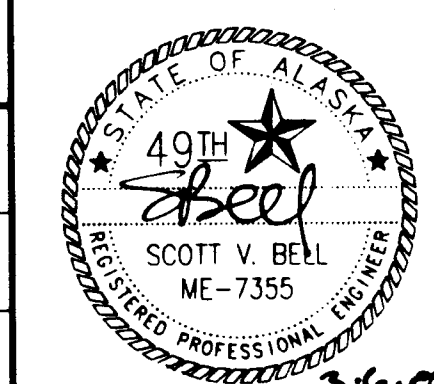
6 UREA BULK UNLOADING STATION DETAIL  
NOT TO SCALE

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date 6/1/03

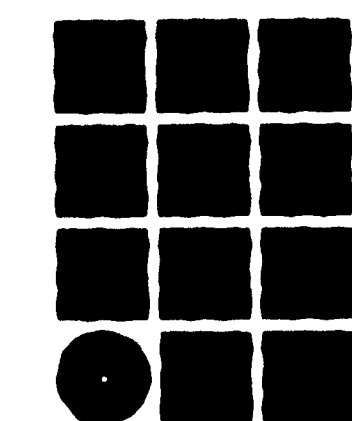
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DRAWN BY: LDS  
CHECKED BY: HBR

M301  
PROJECT NO. 07547  
AIP 3-02-0323-0002  
DATE: November 21, 2001  
SHEET 26 OF 30

NOTE:  
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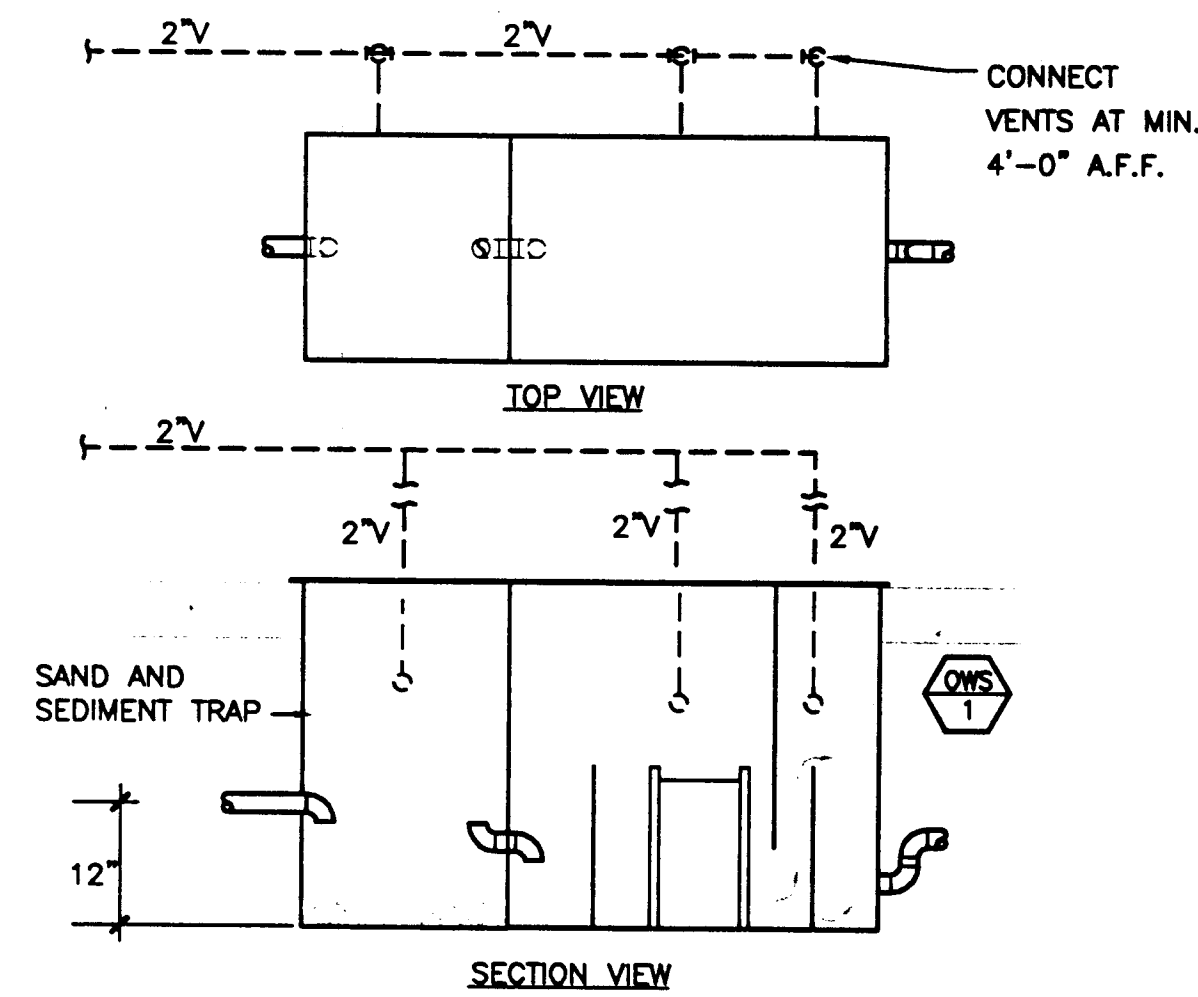
522 West 10th Street  
Juneau, Alaska 99801  
phone 907-586-1070  
fax 907-586-3959  
jensenyorbalott.com

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DESCRIPTION OF CHANGE:		

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

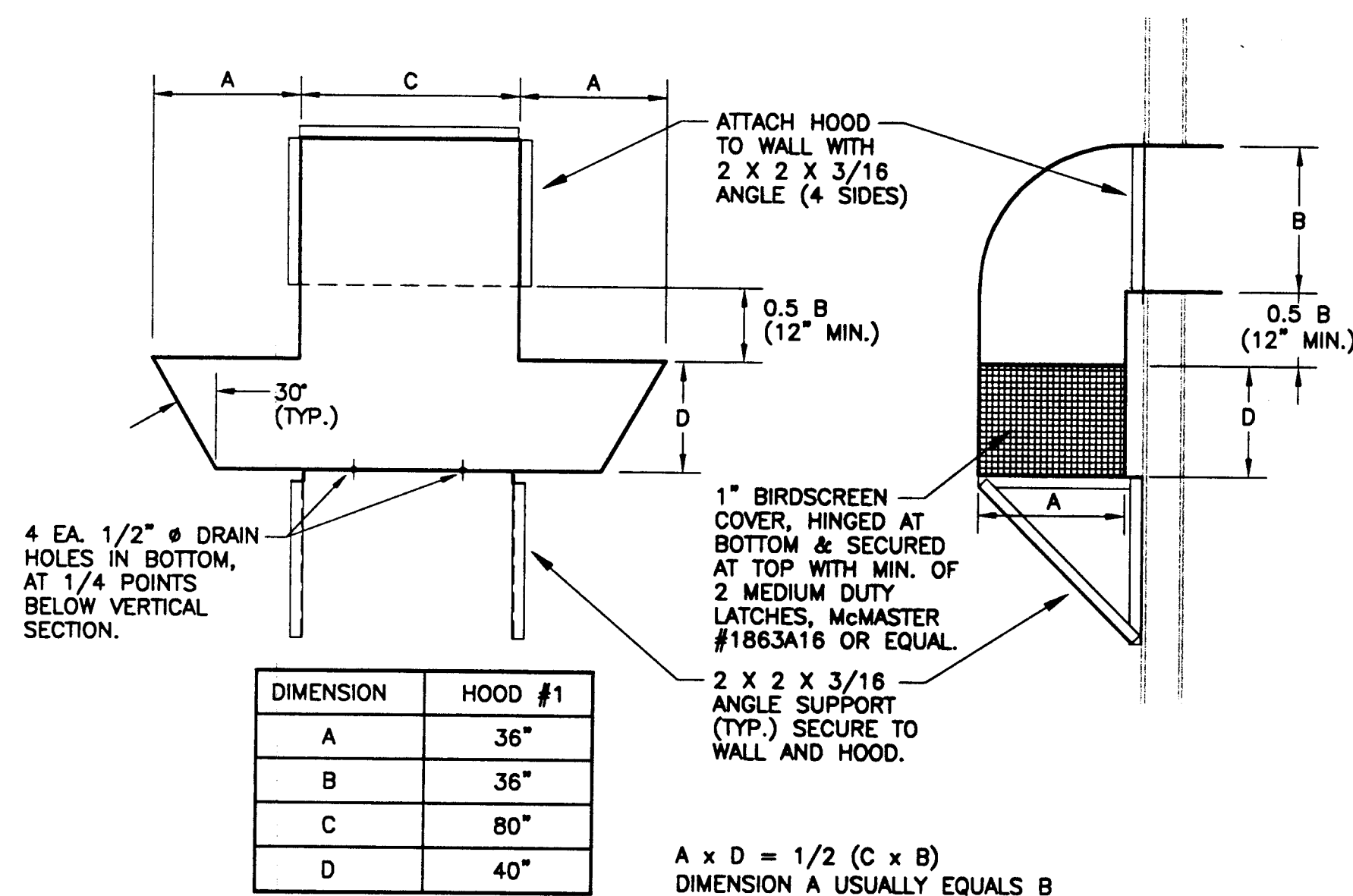




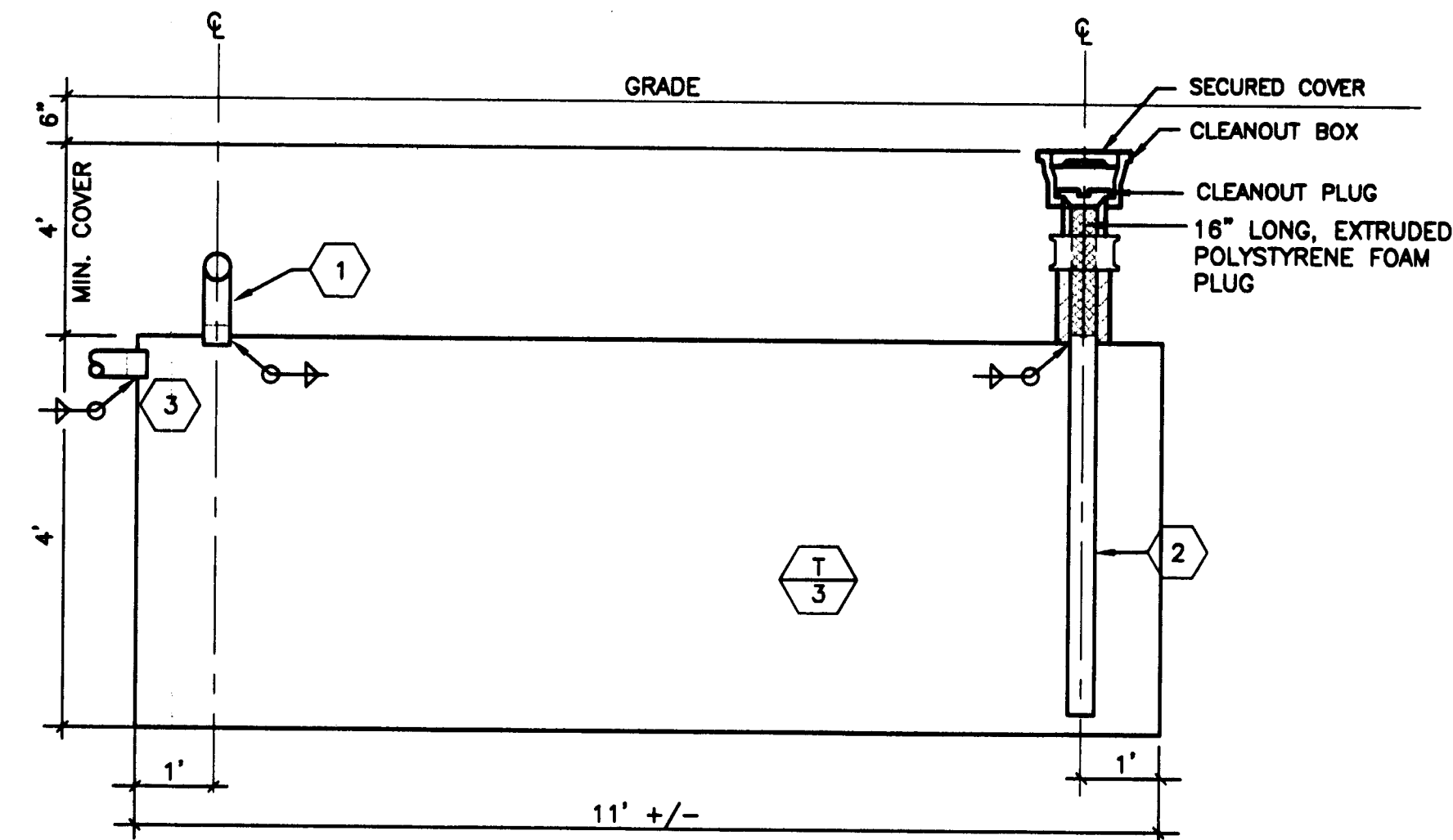
#### NOTES

- 1 2" SCHEDULE 40 BLACK PIPE VENT. WELD JOINTS UNLESS OTHERWISE INDICATED.
- 2 2" SCHEDULE 40 BLACK STEEL PIPE DRAFT TUBE. WELD JOINTS UNLESS OTHERWISE INDICATED.
- 3 4" SCHEDULE 40 BLACK STEEL OWS-1 EFFLUENT INLET. WELD JOINTS UNLESS OTHERWISE INDICATED.

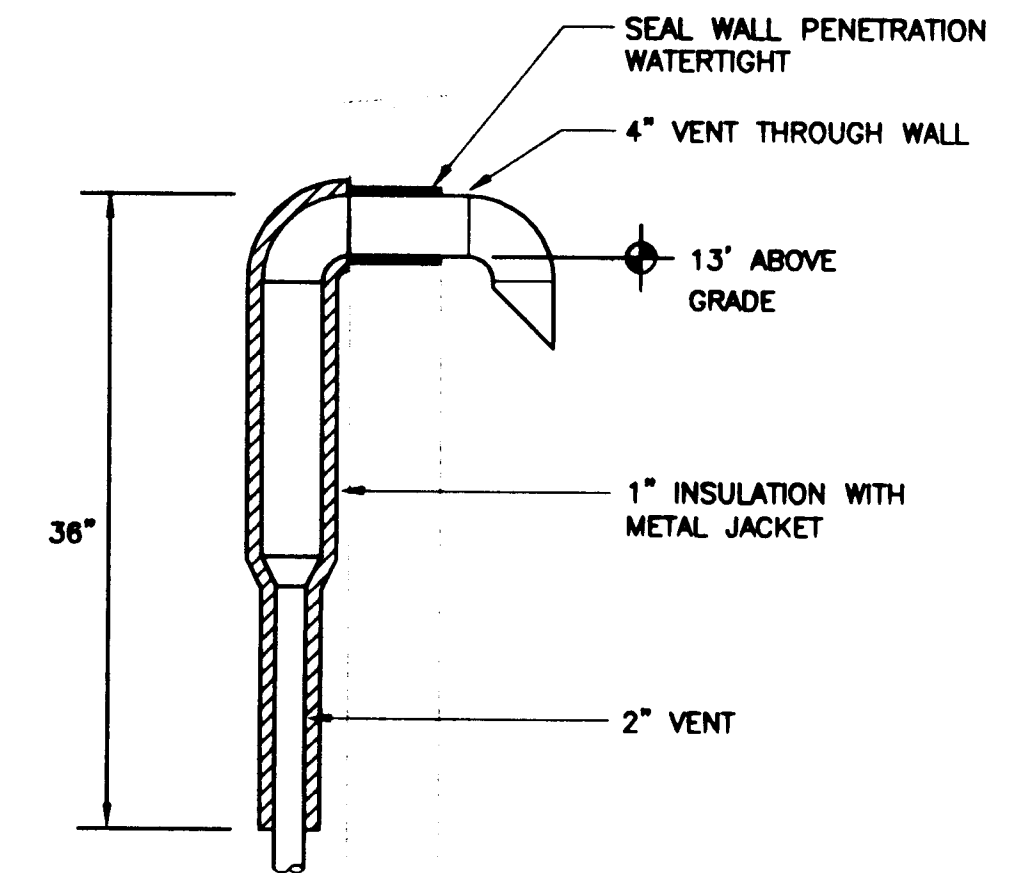
**1 OIL WATER SEPARATOR AND EFFLUENT TANK DETAIL**  
NOT TO SCALE



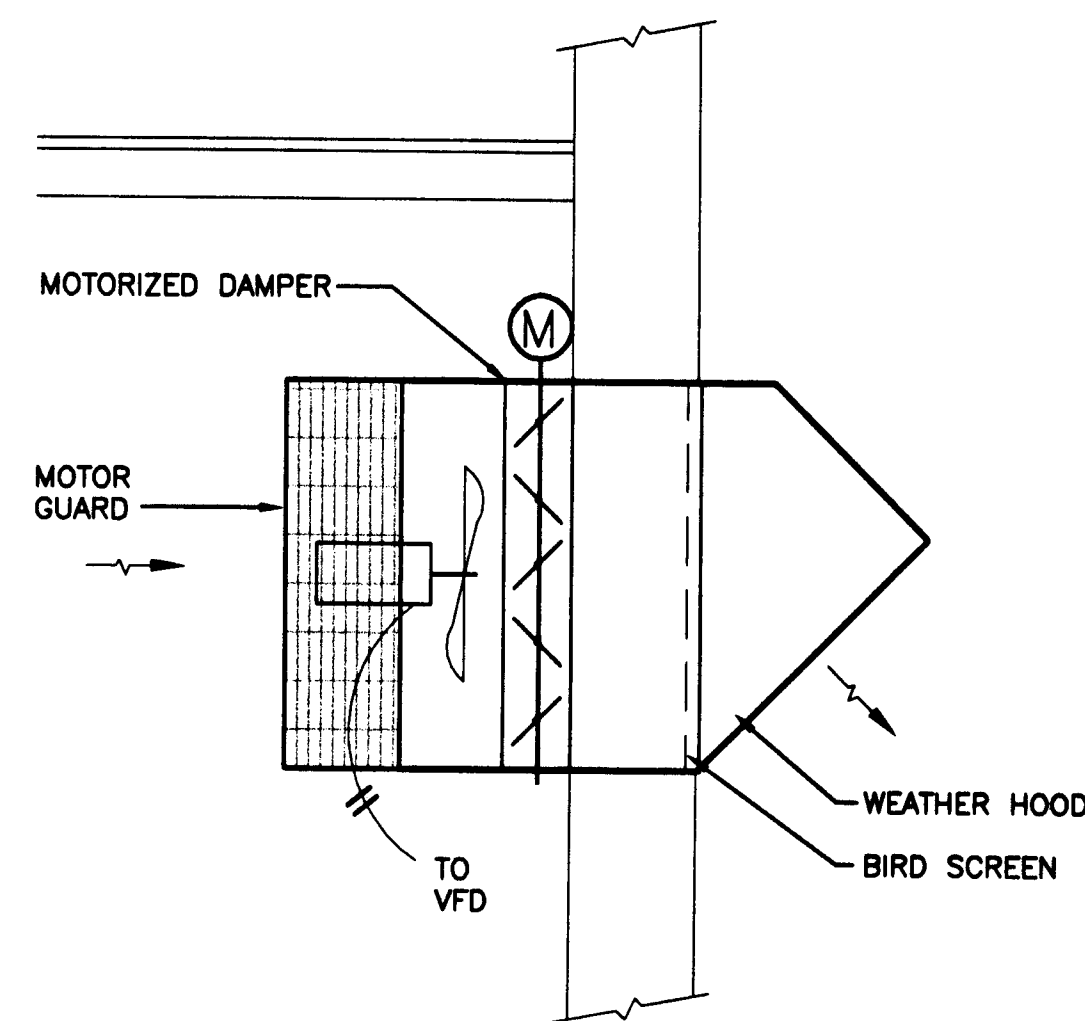
**4 OUTSIDE AIR INTAKE DETAIL**  
NOT TO SCALE



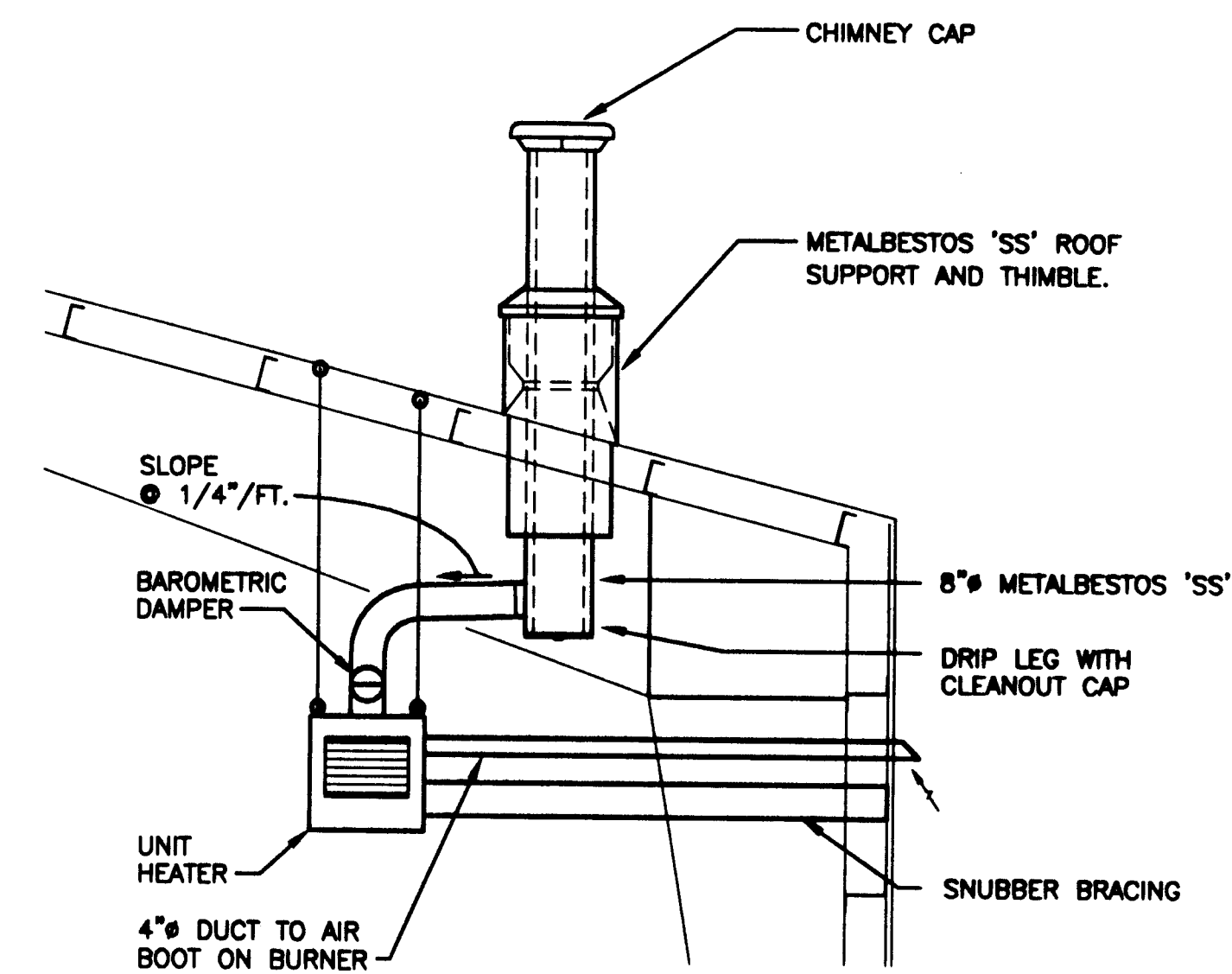
**2 TRENCH DRAIN CATCH BASIN DETAIL**  
NOT TO SCALE



**3 VENT THROUGH WALL DETAIL**  
NOT TO SCALE



**5 NEW EXHAUST FAN DETAIL**  
NOT TO SCALE



**6 UNIT HEATER DETAIL**  
NOT TO SCALE

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date 6/12/03

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NOTE:  
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M401

PROJECT NO. 07547  
AIP 3-02-0323-0902

DATE: November 21, 2001

SHEET 27 OF 30

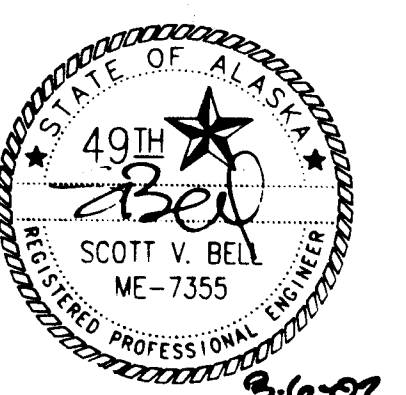
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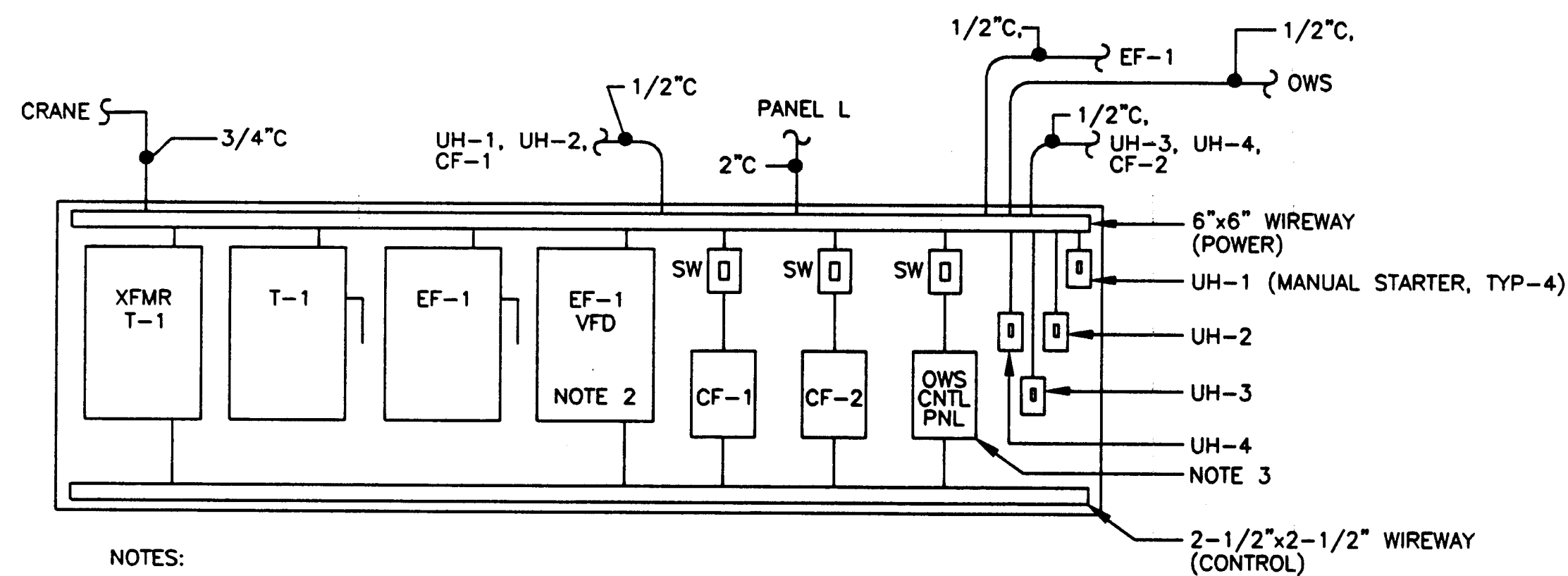
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RECORD OF REVISIONS

STATE OF ALASKA  
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SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

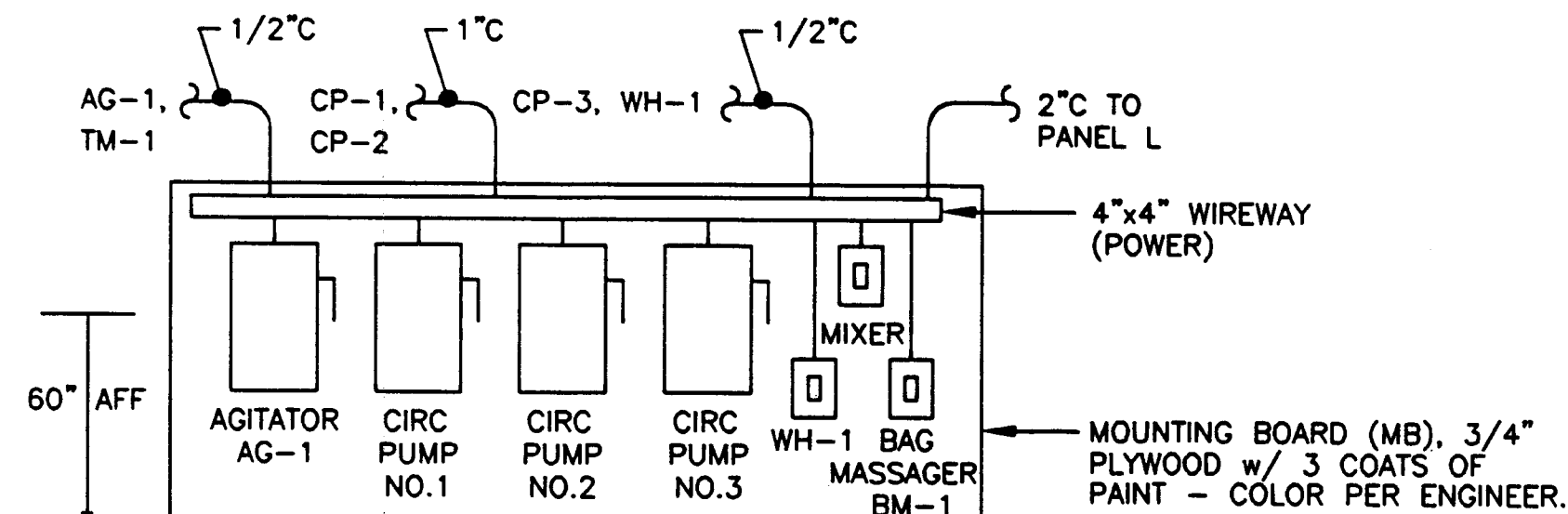




NOTES:

1. MOUNTING BOARD (M.B.) SHALL BE 3/4" PLYWOOD w/ THREE COATS PAINT - COLOR PER ENGINEER.
2. SEE SPEC 15838 FOR EF-1 VFD.
3. SEE SPEC 15430 FOR OWS CONTROLS.

ELEVATION - MOUNTING BOARD 1  
VEHICLE BAY 115



NOTES:

1. COORDINATE LOCATION WITH MECHANICAL TO ELIMINATE CONFLICTS WITH WATER MAIN.

ELEVATION - MOUNTING BOARD 2  
UREA SYSTEM

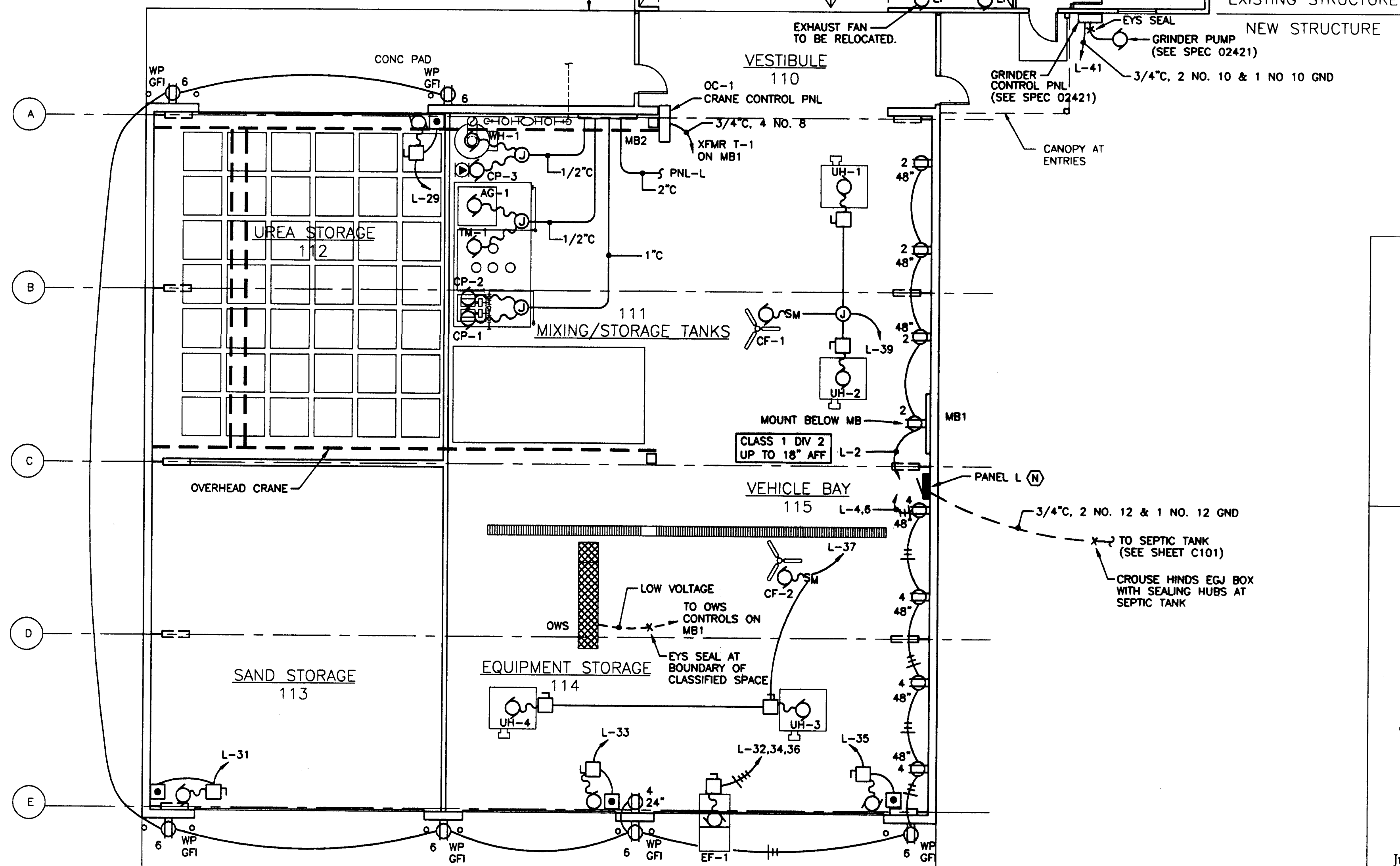
LEGEND

- MOTOR CONNECTION
- PANELBOARD
- ⊕ DUPLEX RECEPTACLE
- DISCONNECT
- INTERIOR WALL MOUNTED LUMINAIRE
- ⊗ EXTERIOR WALL MOUNTED LUMINAIRE
- CEILING MOUNTED LUMINAIRE
- SM MANUAL STARTER
- S SINGLE POLE SWITCH
- S<sub>3</sub> THREE WAY SWITCH
- (E) EXISTING
- (N) NEW

GENERAL

- HOMERUN
- CONDUIT: 1/2" UON
- UNGROUNDED CONDUCTORS
- NEUTRAL: #10 WITH DOT, #12 OTHERWISE
- GROUND CONDUCTOR
- CONDUCTORS NOT SHOWN WHERE ONLY #12 NEUTRAL AND UNGROUNDED CONDUCTOR ARE REQUIRED
- CONDUIT IN FLOOR
- FLEXIBLE CONDUIT
- EMERGENCY LIGHT
- EXIT LIGHT
- TELEPHONE
- SPEAKER - WALL MOUNT

- [HOA] HAND-OFF-AUTO SWITCH
- NS NON-SWITCHED
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- WP WEATHER PROOF
- MB MOUNTING BOARD
- [PE] PHOTO EYE
- DOOR BUTTONS
- ⊙ JUNCTION BOX
- OWS OIL/WATER SEPARATOR



NOTES:

1. MECHANICAL EQUIPMENT LOCATIONS APPROXIMATE. VERIFY WITH MECHANICAL PLANS FOR EXACT LOCATION.
2. RECONNECT EXISTING FAN POWER & CONTROLS TO FAN AT NEW LOCATION.

1 FLOOR PLAN - POWER

SCALE: 0 4' 8' 16'

Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date 4/1/03

HAIGHT & McLAUGHLIN, INC.  
CONSULTING ENGINEERS  
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

**Jensen Yorba Lott Inc.**

522 West 10th Street  
Juneau, Alaska 99801  
phone 907-586-1070  
fax 907-586-3959  
jensenyorbaltott.com

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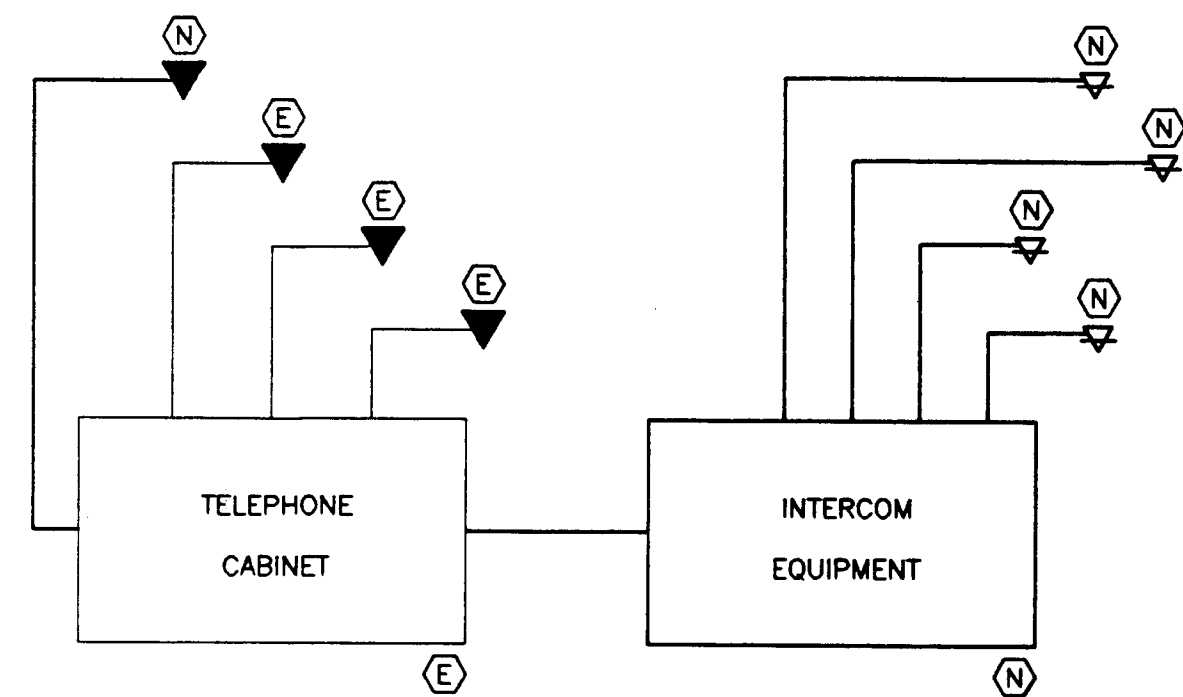
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY:	MAS	E201
DRAWN BY:	PEL/DRP	PROJECT NO. 07547 AIP 3-02-0323-0902
CHECKED BY:	TSM	DATE: Nov. 21, 2001
		SHEET 28 OF 30

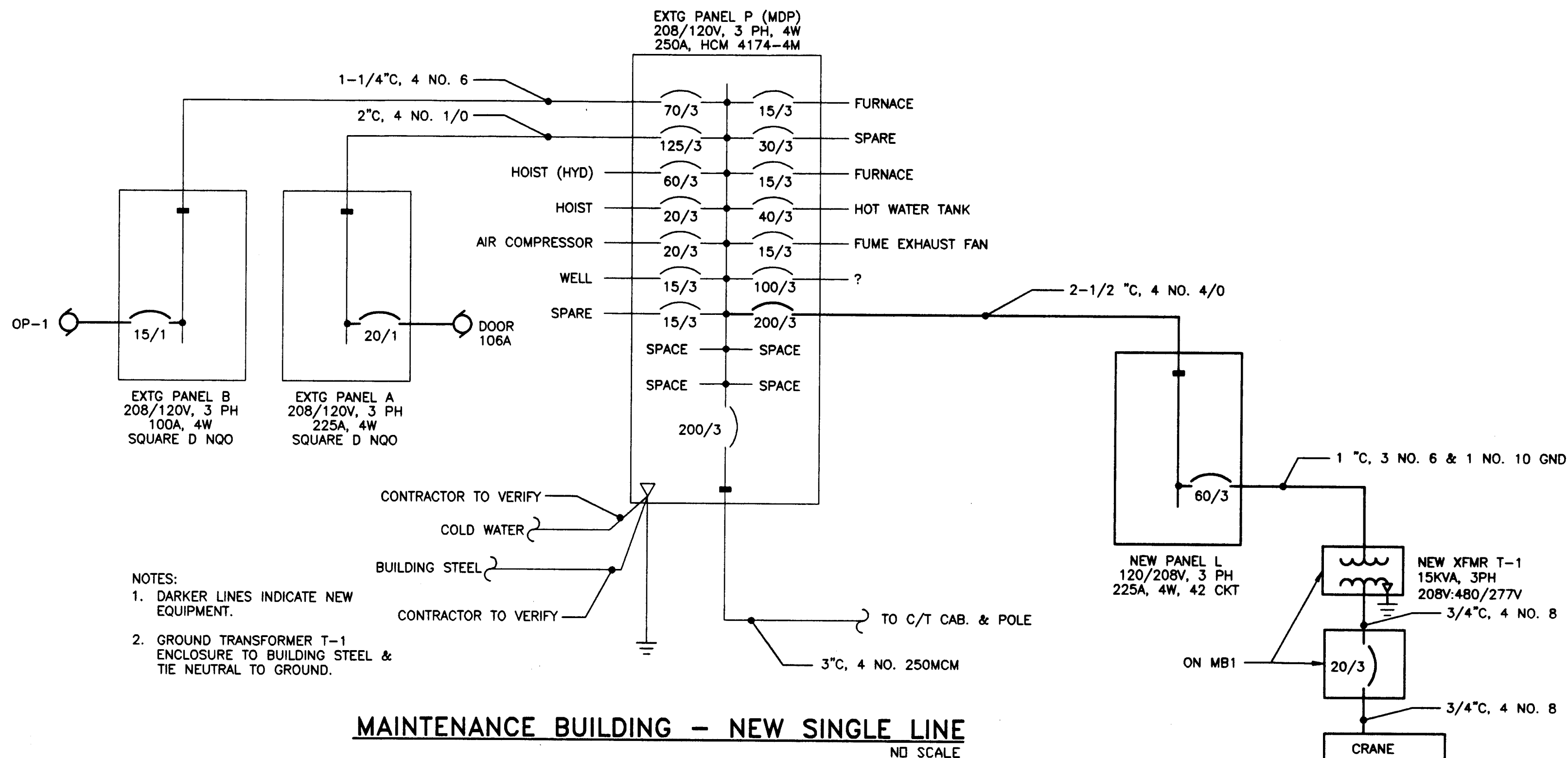
PANEL-L		SIZE	VOLTS/PHASE			MAIN	LOCATION		MOUNT
		225 AMPS	120/208V, 3 PH			LUGS ONLY	VEHICLE BAY 115		SURFACE
CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA			BREAKER AMP/POLE	DESCRIPTION		CKT NO
			CKT	AØ	BØ	CØ	CKT		
1	EAST WALL	LTG	20/1 *	0.9	1.6		0.7	20/1 GFI	MIXING STORAGE 111
3	CENTER HIBAY		20/1 *	1.9		2.8	0.9	20/1 GFI	VEHICLE BAY 115
5	CENTER HIBAY		20/1 *	1.9		2.8	0.9	20/1	EXTERIOR
7	WEST WALL		20/1 *	1.3	4.2		2.9	50/3	CP-1 (7.5 HP)
9	EXTERIOR		20/1	1.5		4.4	2.9	--	--
11	SPARE		20/1	0.0			2.9	--	--
13	SPARE		20/1	0.0	2.9		2.9	50/3	CP-2 (7.5 HP)
15	SPARE		20/1	0.0		2.9	2.9	--	--
17	SPARE		20/1	0.0			2.9	--	--
19	SPARE		20/1	0.0	1.3		1.3	20/3	TM-1 (3 HP)
21	SEPTIC TANK (1/3 HP)		15/1	0.9		2.2	1.3	--	--
23	AGITATOR (1.5 HP)		15/3	0.7			2.0	1.3	--
25	--		--	0.7	0.9		0.2	20/1	OWS CONTROL PANEL
27	--		--	0.7		1.4	0.7	15/1	WH-1 (1/4 HP)
29	DOOR 112A (1/2 HP)		20/1	1.2			1.7	25/1	CP-3 (3/4 HP), BM-1
31	DOOR 113A (1/2 HP)		20/1	1.2	2.7		1.5	20/3	EF-1 (1 HP)
33	DOOR 114A (1/3 HP)		15/1	0.9		2.4	1.5	--	--
35	DOOR 115A (1/2 HP)		20/1	1.2			2.7	1.5	--
37	CF-2, UH-3, UH-4		20/1	1.9	5.0		3.1	60/3	OVERHEAD CRANE, OC-1
39	CF-1, UH-1, UH-2		20/1	1.9		5.0	3.1	--	--
41	GRINDER PUMP (Panel A)		30/1	1.9		5.0	3.1	--	--
BALANCED CONNECTED LOAD = 60.9 KVA / 169 AMPS				18.6	21.1	21.2	BALANCED DEMAND LOAD = 0.0 KVA / 00 AMPS		
MAXIMUM CONNECTED LOAD = 60.9 KVA / 177 AMPS							MAXIMUM DEMAND LOAD = 0.0 KVA / 00 AMPS		

\* HID CIRCUIT BREAKER



- NOTE:
1. INSTALL NEW TALKBACK INTERCOM HEADEND EQUIPMENT IN ARFF BUILDING. TIE TO EXISTING TELEPHONE CABINET.
  2. INSTALL NEW TELEPHONE IN VEHICLE BAY 115.
  3. INSTALL TWO PAGING SPEAKERS EACH IN VEHICLE BAY 115 AND EXISTING GARAGE 106.
  4. INSTALL ONE PAGING SPEAKER IN SHOP OF ARFF BUILDING.
  5. EXISTING HANDSET SYSTEM IS MERIDIAN.

TELEPHONE RISER  
NO SCALE



- NOTES:
1. DARKER LINES INDICATE NEW EQUIPMENT.
  2. GROUND TRANSFORMER T-1 ENCLOSURE TO BUILDING STEEL & TIE NEUTRAL TO GROUND.

MAINTENANCE BUILDING - NEW SINGLE LINE  
NO SCALE

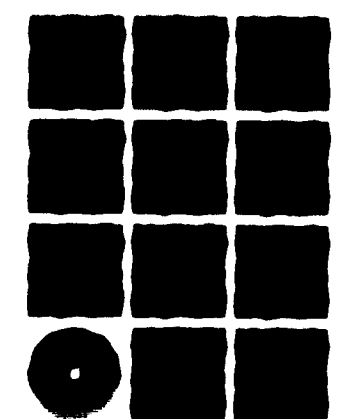
MECHANICAL EQUIPMENT SCHEDULE													
DESIGNATION			LOAD			CIRCUITING			CONTROL				
ITEM	DESCRIPTION	LOCATION	HP	KW	VOLTS	PHASE	NO.	RATING	CONDUCTORS	DISCONNECT SWITCH	FUSE	STARTER CONTROL SIZE	REMARKS
CP-1	UREA PUMP	RM 111	7.5	--	208	3	--	50/3	3 NO. 8, 1 NO. 10	HD	--	1	ON-OFF
CP-2	UREA PUMP	RM 111	7.5	--	208	3	--	50/3	3 NO. 8, 1 NO. 10	HD	--	1	ON-OFF
CP-3	TANK HEATER PUMP	RM 111	3/4	--	120	1	--	25/1	2 NO. 10	HD	--	00	ON-OFF
TM-1	PROPELLER MIXER	RM 111	3	--	208	3	--	20/3	4 NO. 12	HD	--	0	ON-OFF
WH-1	WATER HEATER	RM 111	1/4	--	120	1	--	15/1	2 NO. 12	--	9	00	SWE
BM-1	BAG MASSAGER	RM 111	0	--	120	1	--	20/1	2 NO. 12	GD	--	00	ON-OFF
AG-1	AGITATOR	RM 111	1.5	--	208	3	--	15/3	4 NO. 12	GD	--	00	ON-OFF
UH-1	UNIT HEATER	RM 115	1/3	--	120	1	--	20/1	2 NO. 12	GD	--	00	ON-OFF
CF-1	CEILING FAN	RM 115	--	0.16	120	1	--	20/1	2 NO. 12	SW	--	00	SWF MOUNT CNTLS ON MB1
EF-1	EXHAUST FAN	RM 115	1	--	208	3	--	20/3	4 NO. 12	GD	--	00	VFD
OC-1	OVERHEAD CRANE	RM 111	--	--	208	3	--	60/3	3 NO. 6, 1 NO. 10 GND	HD	--	--	SWC
CF-2	CEILING FAN	RM 115	--	0.16	120	1	--	20/1	2 NO. 12	SW	--	00	SWF MOUNT CNTLS ON MB1
UH-2	UNIT HEATER	RM 115	1/3	--	120	1	--	20/1	2 NO. 12	GD	--	00	ON-OFF
UH-3	UNIT HEATER	RM 115	1/3	--	120	1	--	20/1	2 NO. 12	GD	--	00	ON-OFF
UH-4	UNIT HEATER	RM 114	1/3	--	120	1	--	20/1	2 NO. 12	GD	--	00	ON-OFF
OWS	OIL/WATER SEPARATOR	RM 114	--	--	120	1	--	20/1	2 NO. 12	SW	--	--	SWP MOUNT CNTLS ON MB1
	GRINDER PUMP	EXT	1	--	120	1	--	30/1	2 NO. 10	GD	--	--	SWP MOUNT CNTLS ON EXT
	DOOR 106A	RM 106	1/2	--	120	1	--	20/1	2 NO. 12	GD	--	00	SWO FEED FROM PANEL A
	DOOR 113A	RM 113	1/2	--	120	1	--	20/1	2 NO. 12	GD	--	00	SWO
	DOOR 114A	RM 114	1/3	--	120	1	--	15/1	2 NO. 12	GD	--	00	SWO
	DOOR 115A	RM 115	1/2	--	120	1	--	20/1	2 NO. 12	GD	--	00	SWO
	DOOR 112A	RM 112	1/2	--	120	1	--	20/1	2 NO. 12	GD	--	00	SWO
	SEPTIC TANK	OUTSIDE	1/3	--	120	1	--	15/1	2 NO. 12, 1 NO. 12 GND	GD	--	00	--
OP-1	FUEL OIL PUMP	RM 103	1/4	--	120	1	--	15/1	2 NO. 12	GD	--	00	ON-OFF FEED FROM PANEL B

HD = HEAVY DUTY  
GD = GENERAL DUTY  
SW = SWITCH

SWE = SUPPLIED WITH EQUIPMENT  
SWP = SUPPLIED WITH PUMP  
SWF = SUPPLIED WITH FAN  
SWO = SUPPLIED WITH OPERATOR  
SWC = SUPPLIED WITH CRANE

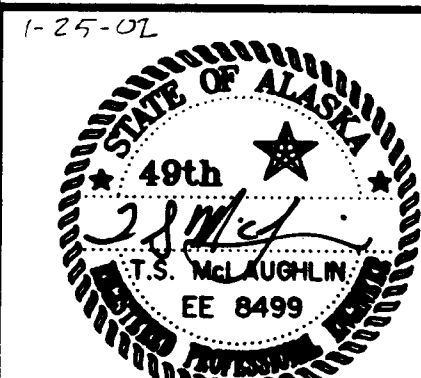
Project As Built Drawings have been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.  
Proj. Eng. *[Signature]* Date 6/10/03

HAIGHT & McLAUGHLIN, INC.  
CONSULTING ENGINEERS  
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788



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fax 907-586-3959  
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NOTE:  
DO NOT SCALE FROM THESE PLANS - USE DIMENSIONS



PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

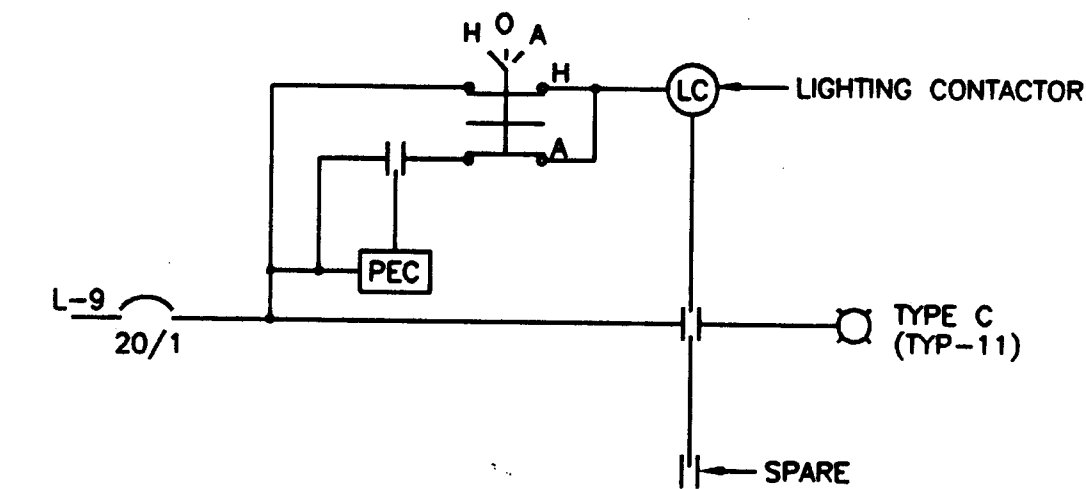
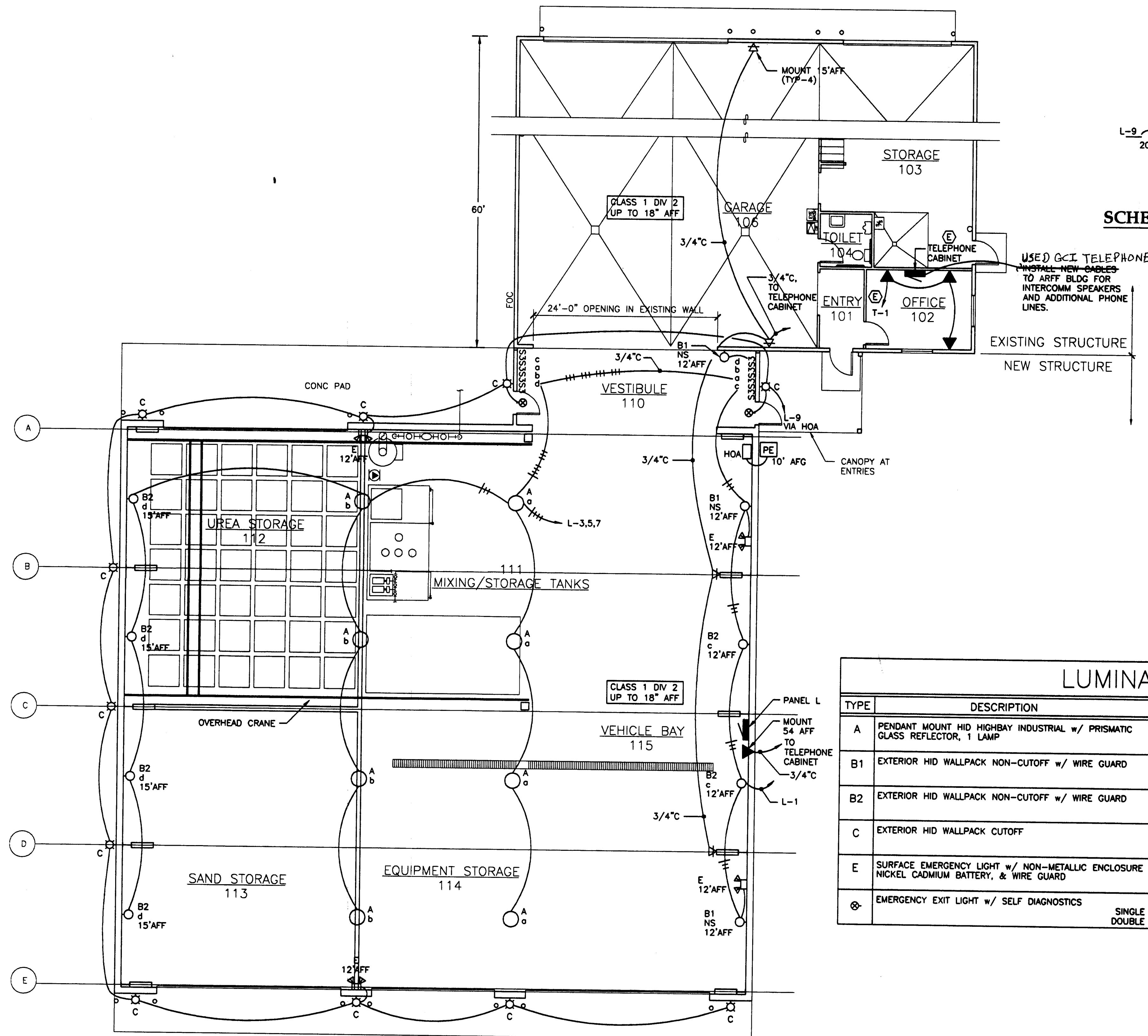
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

WRANGELL AIRPORT  
SAND & CHEMICAL STORAGE BUILDING ADDITION

DESIGNED BY: MAS  
DRAWN BY: PEL/DRP  
CHECKED BY: TSM

E202  
PROJECT NO. 67547  
AIP 3-02-0323-0902  
DATE: Nov. 21, 2001  
SHEET 29 OF 30





SCHEMATIC - EXTERIOR LIGHTING CONTROLS  
NO SCALE

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	PENDANT MOUNT HID HIGHBAY INDUSTRIAL w/ PRISMATIC GLASS REFLECTOR, 1 LAMP	HOLOPHANE PRSL-400PM-12-PD-G40	(1) 400W MH 3700K, CRI 70	MOUNT @ 20'-0" AFF TO BOTTOM OF LUMINAIRE
B1	EXTERIOR HID WALLPACK NON-CUTOFF w/ WIRE GUARD	HOLOPHANE WL2K-70HPS-12-BK-WL2KWG	(1) 70W HPS 2200K, CRI 60	MOUNTING HEIGHT AS NOTED ON PLANS
B2	EXTERIOR HID WALLPACK NON-CUTOFF w/ WIRE GUARD	HOLOPHANE WL3K-250MH-12-BK-WL3KWG	(1) 250W MH 3700K, CRI 70	MOUNTING HEIGHT AS NOTED ON PLANS
C	EXTERIOR HID WALLPACK CUTOFF	GUTH SND-12-50-MH-1	(1) 50W MH 3700K, CRI 70	MOUNT @ 10'-0" AFF TO BOTTOM OF LUMINAIRE
E	SURFACE EMERGENCY LIGHT w/ NON-METALLIC ENCLOSURE NICKEL CADMIUM BATTERY, & WIRE GUARD	LITHONIA ELU4X N H ELA WG4/8	(2) 8W PAR36 TUNGSTON NSP 8"	MOUNT @ 12'-0" AFF TO BOTTOM OF LUMINAIRE
⊗	EMERGENCY EXIT LIGHT w/ SELF DIAGNOSTICS	LITHONIA LE S 1 G 120/277 EL N SD LE S 2 G 120/277 EL N SD	LED	MOUNT @ ABOVE DOOR

1 FLOOR PLAN - LIGHTING & SIGNAL

SCALE: 0 4' 8' 16'



Project As Built Drawings Have Been Reviewed By The Project Engineer & Represent, To The Best Of My Knowledge, The Project As Constructed.

Proj. Eng. *[Signature]* Date 6/19/03

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

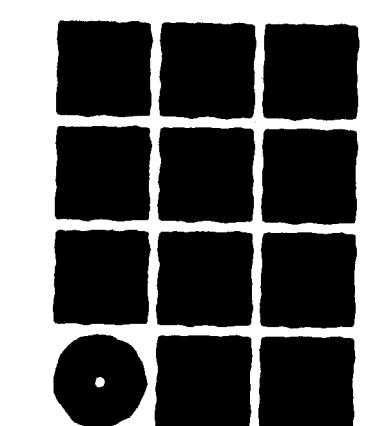
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